

# Introduksjon til Flux

**Hva?**

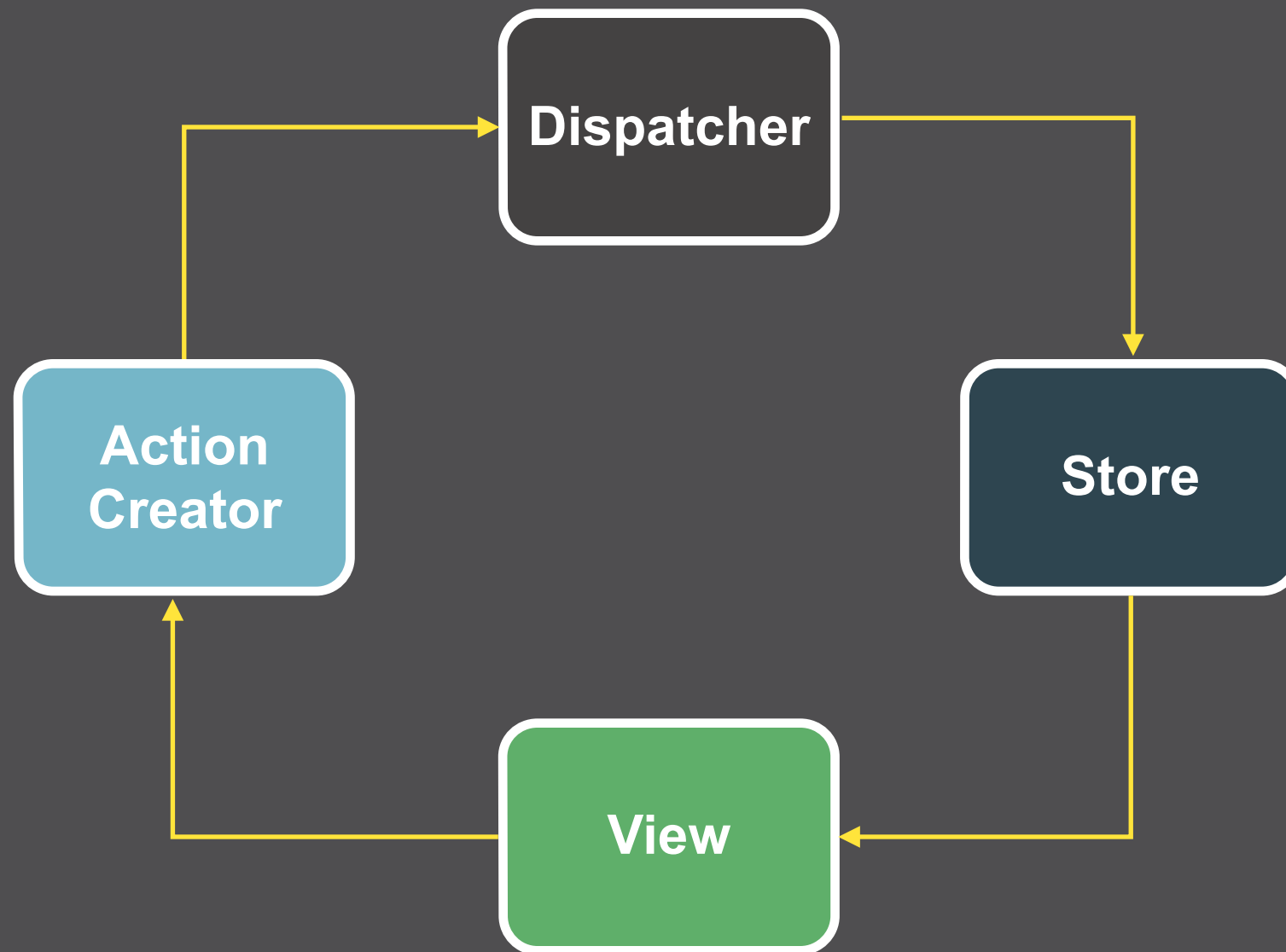
**Hvordan?**

**Hvorfor?**

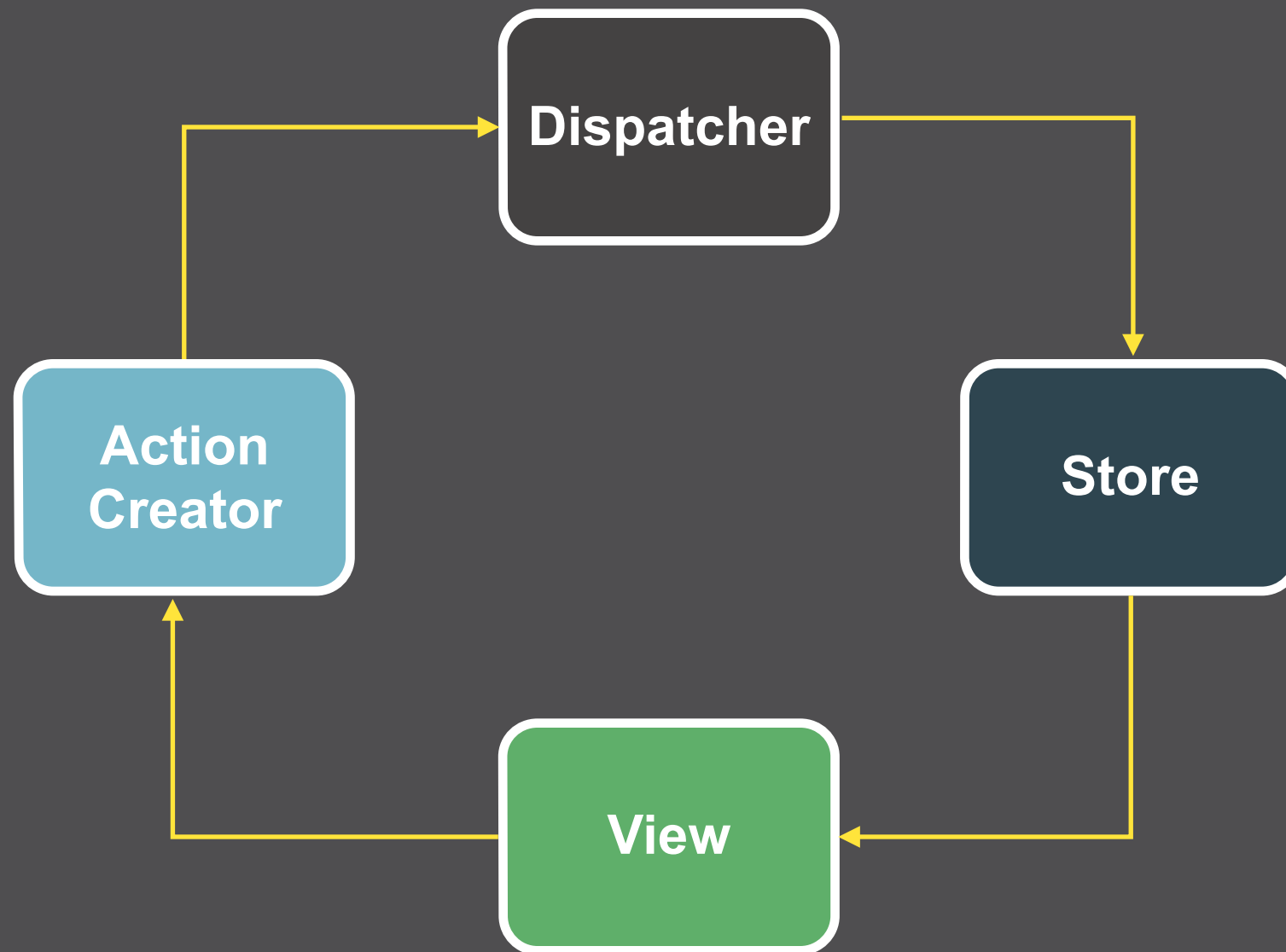
**Hva?**

**Et design pattern for  
frontend**

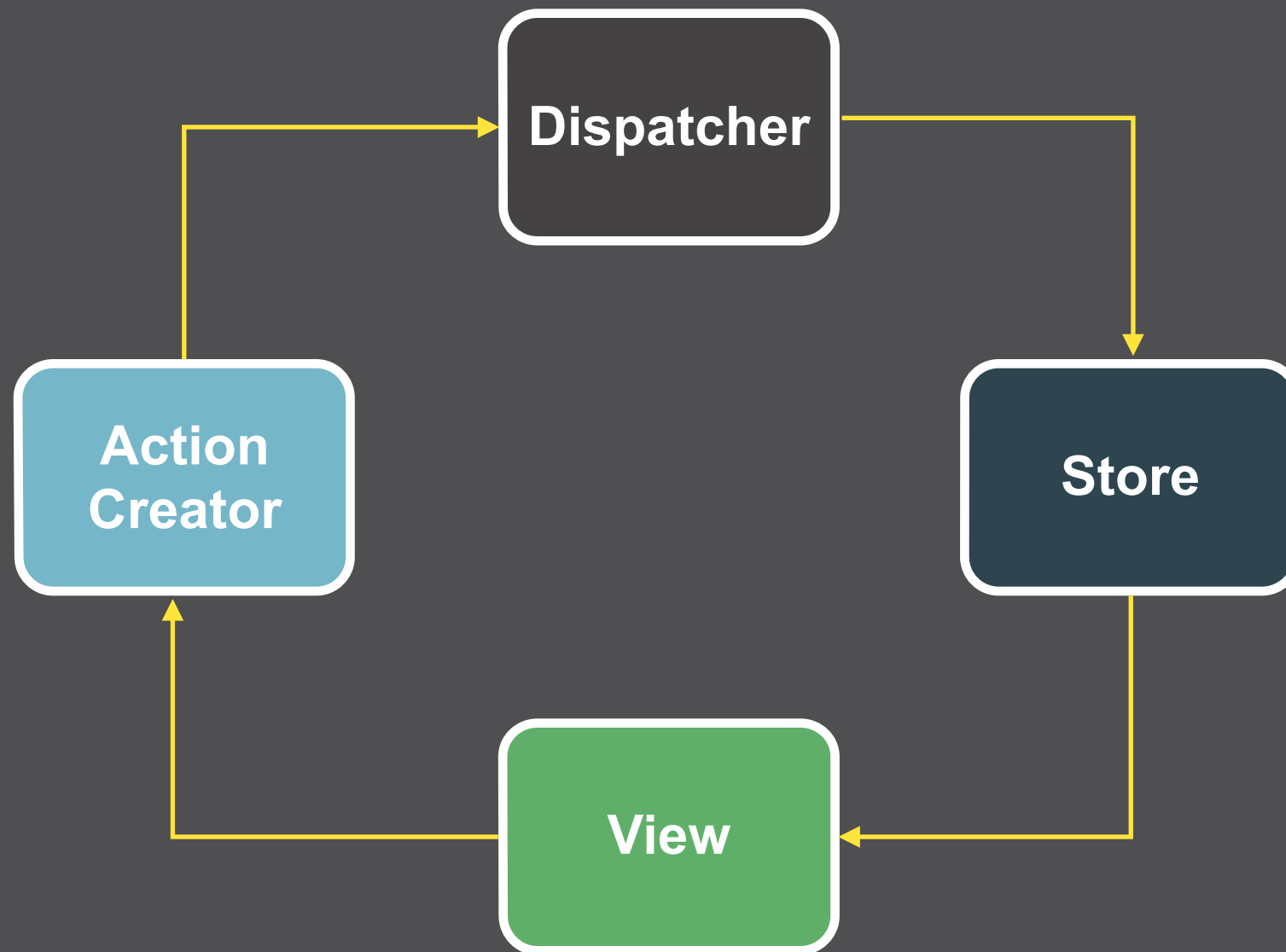
# Flux



# Dataflyten går kun én vei



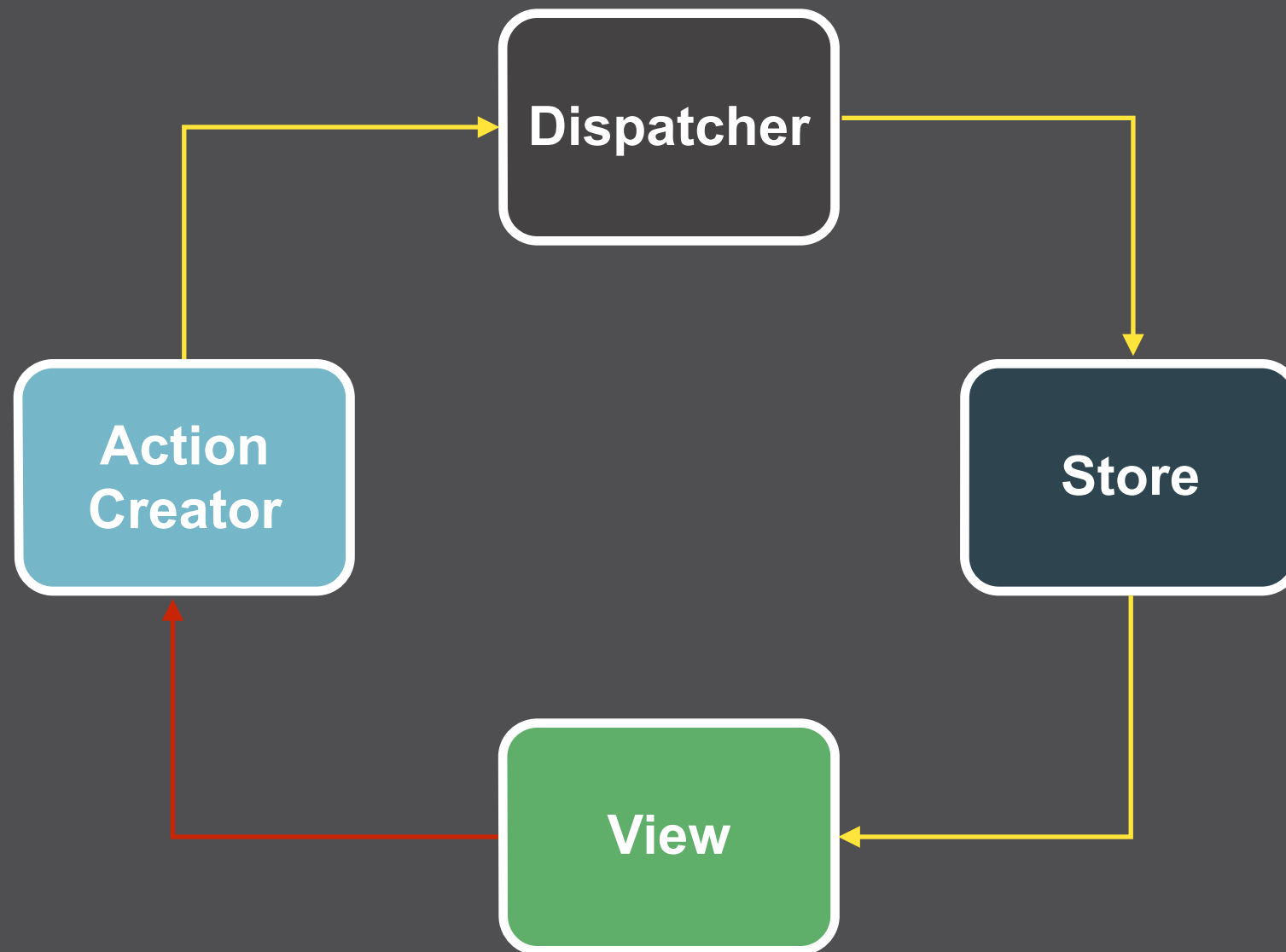
# Mental modell



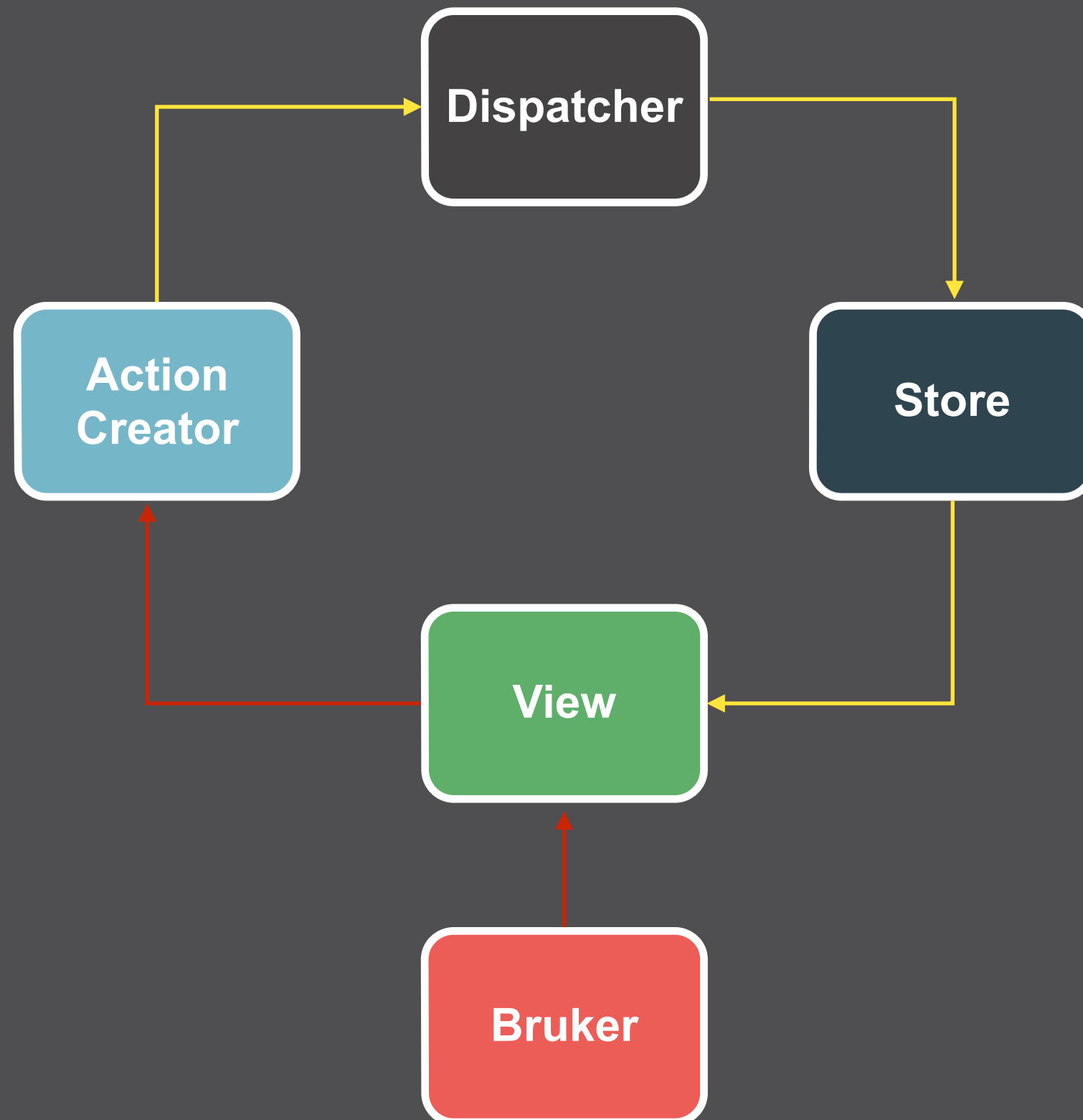
**Hvordan?**



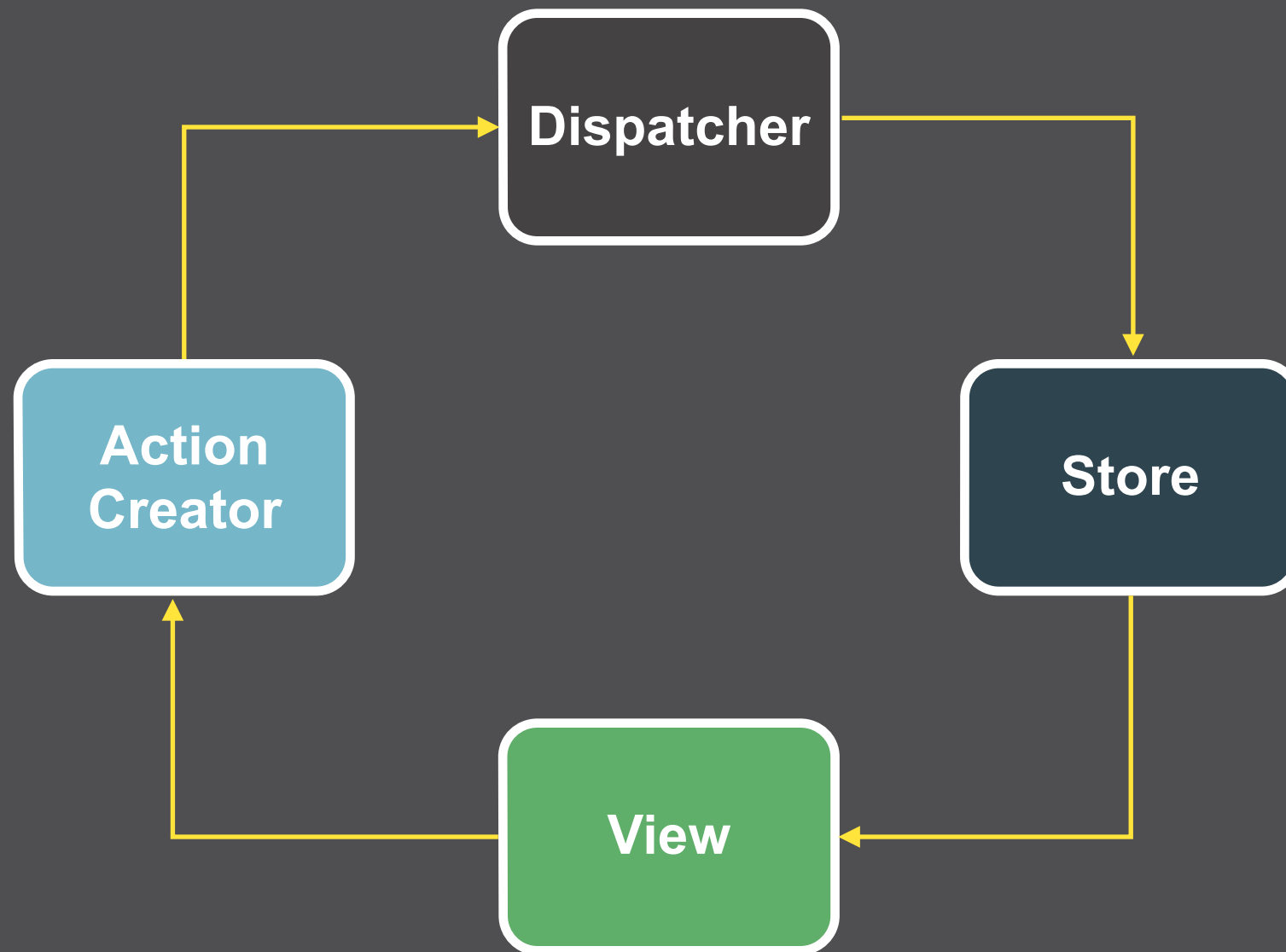
# Hvor kommer data fra?



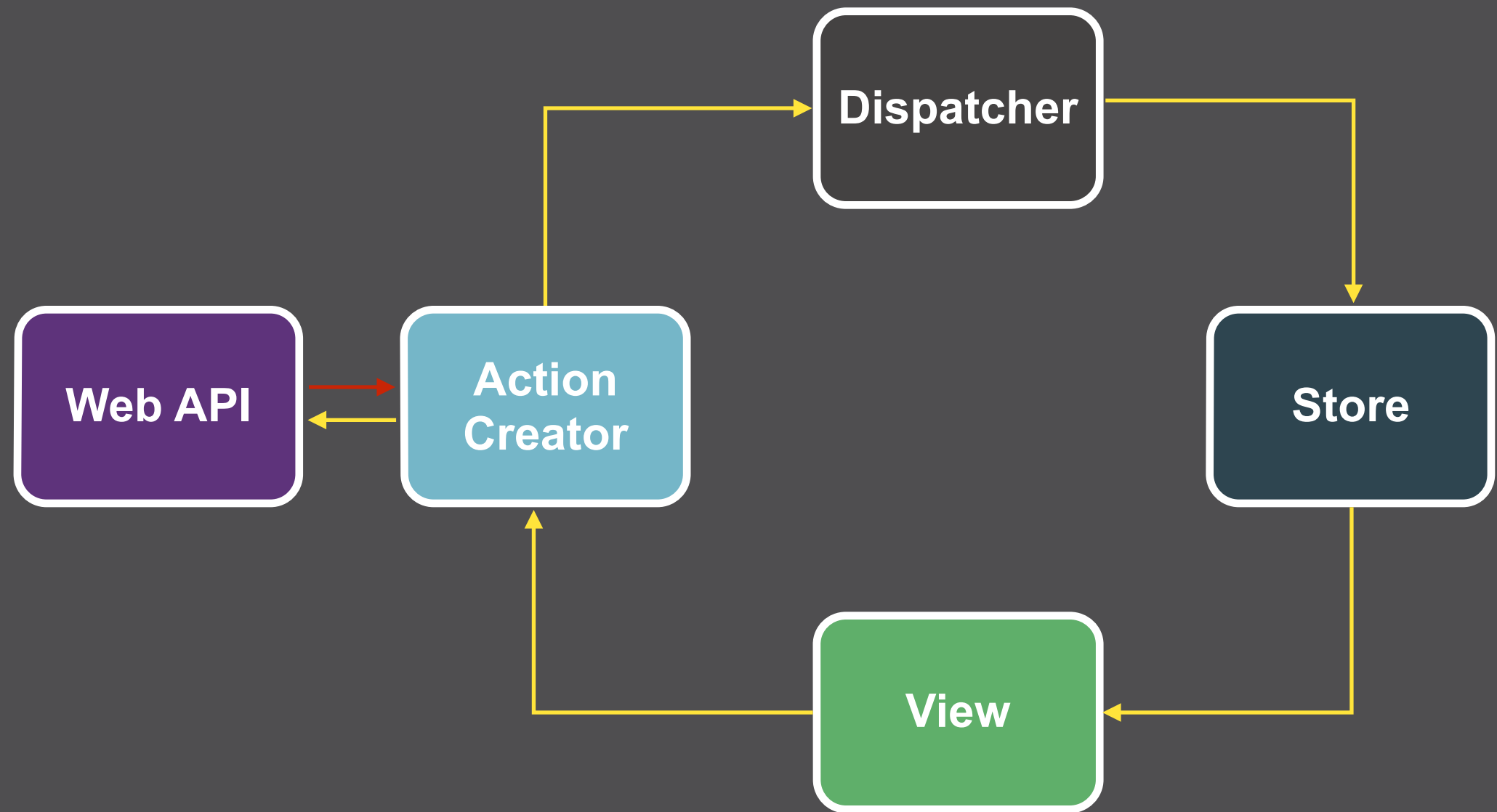
# Hvor kommer data fra?



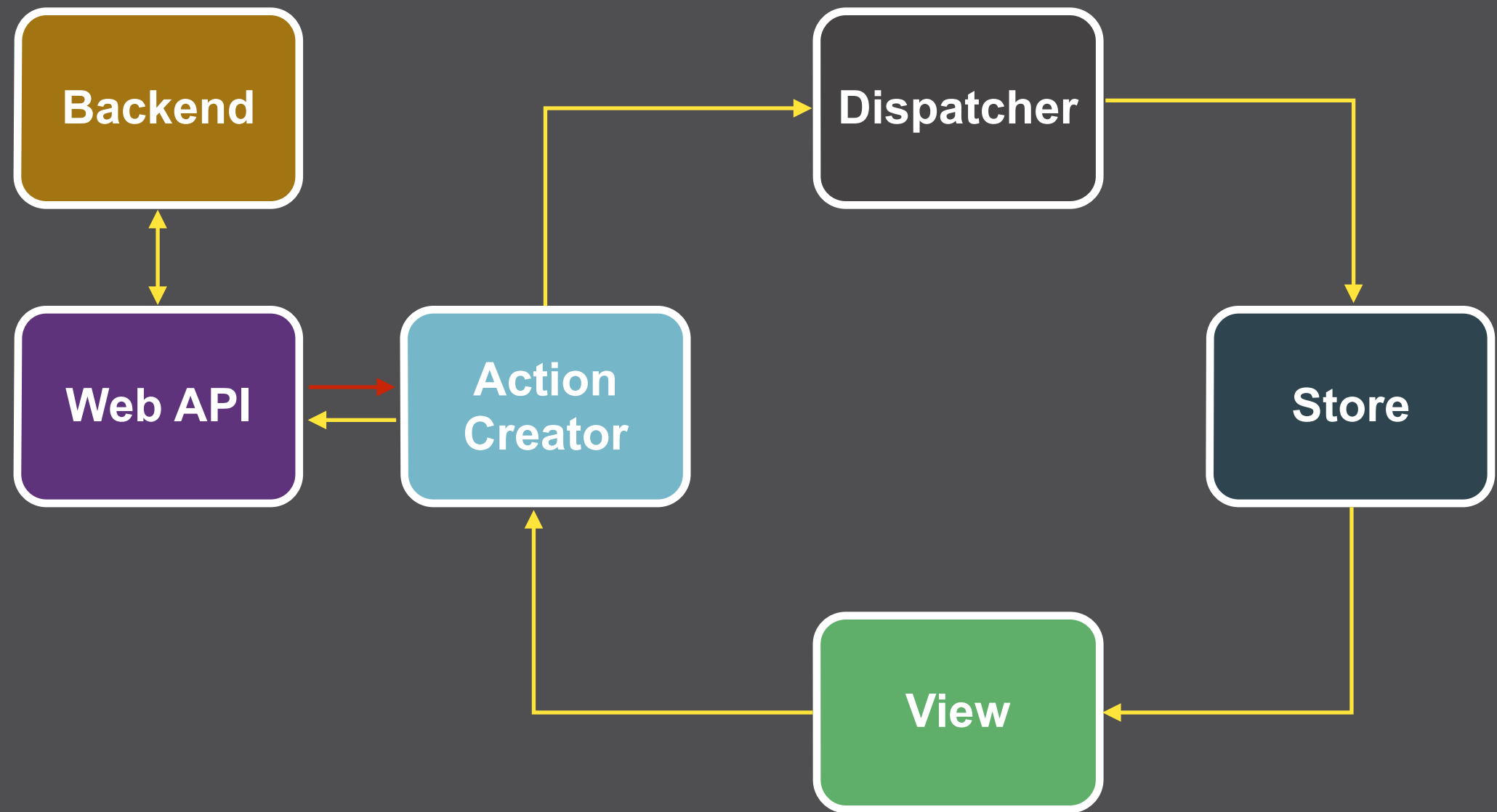
# Data fra backend?



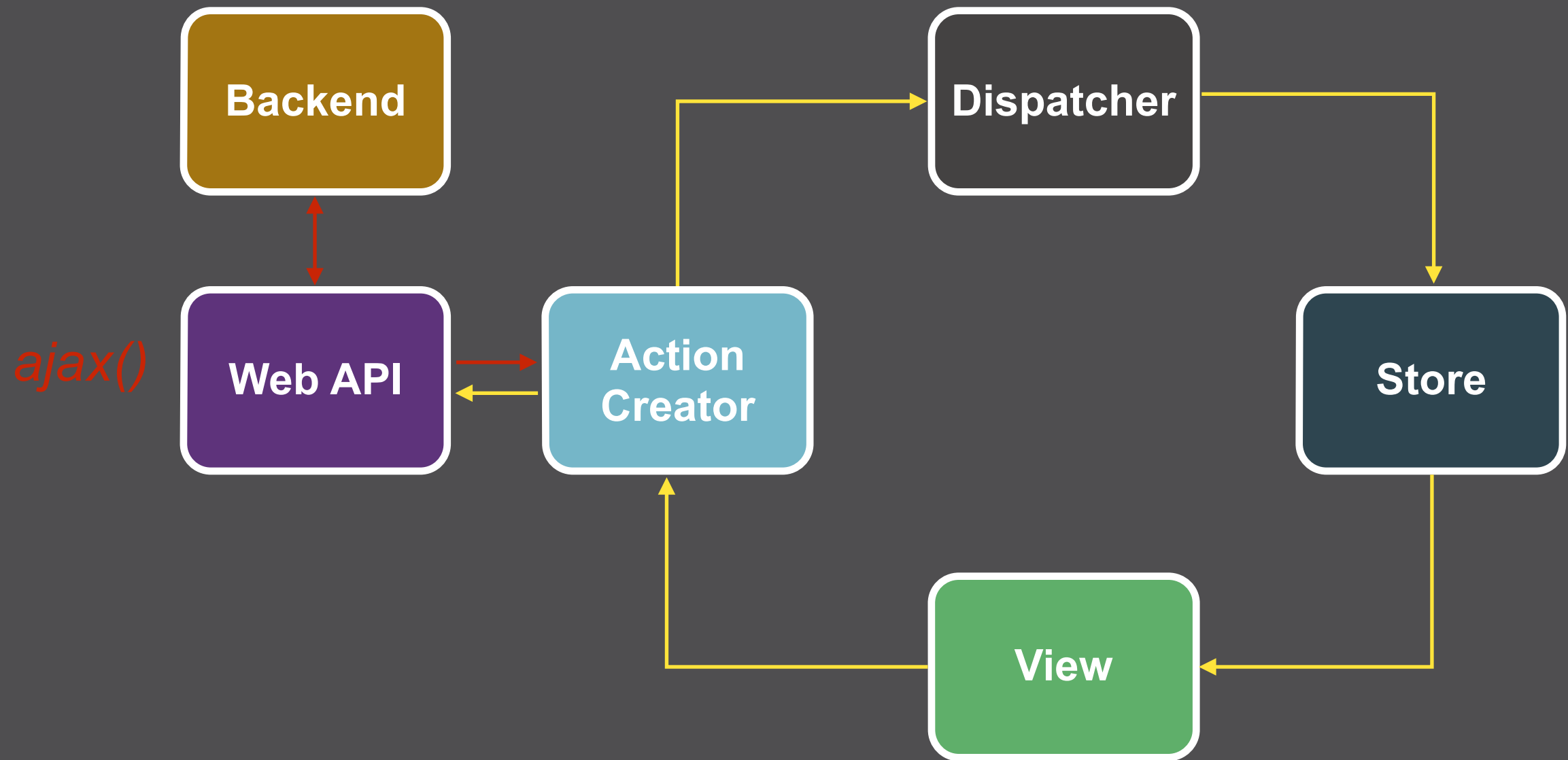
# Data fra backend?



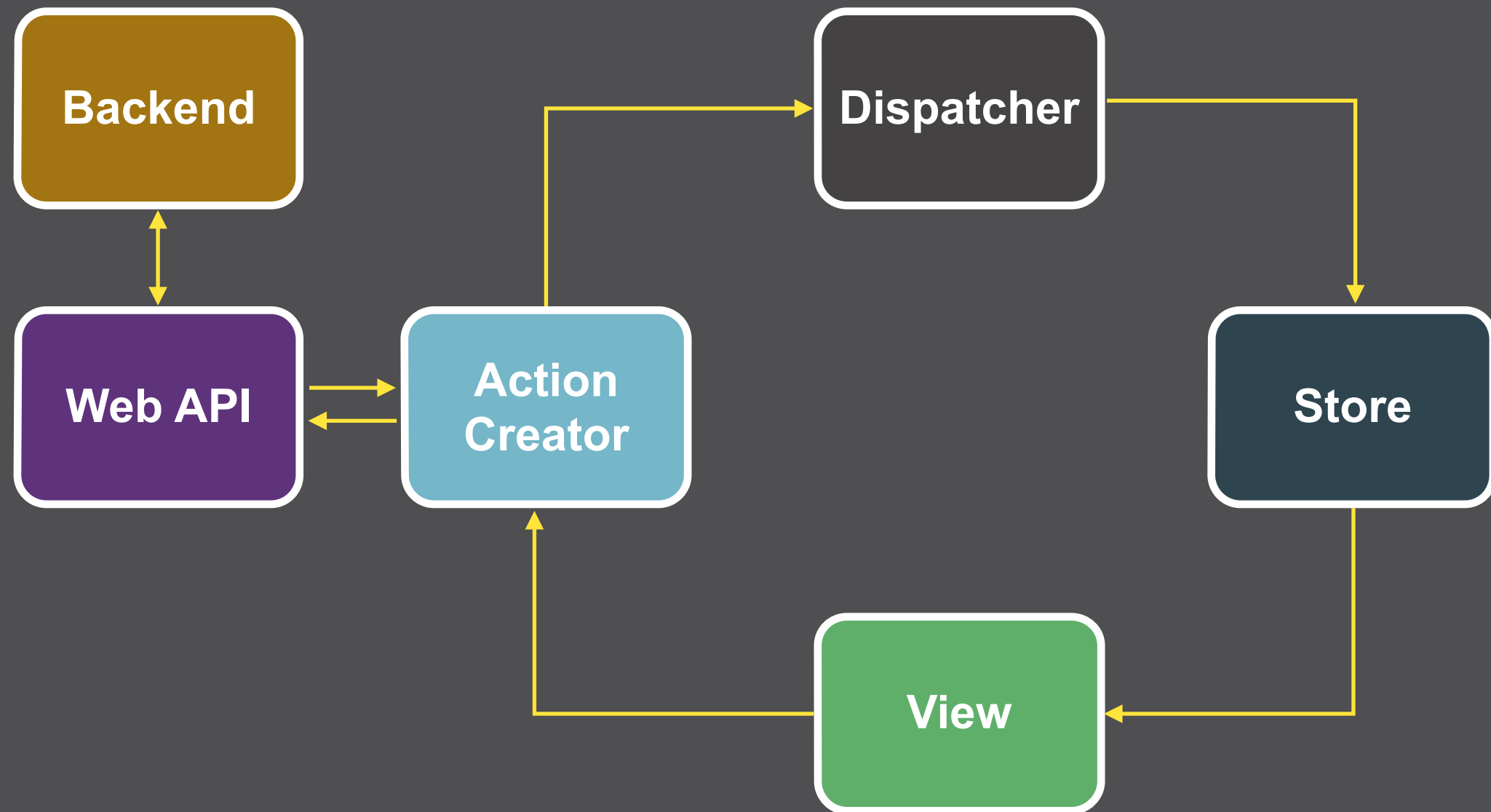
# Data fra backend?



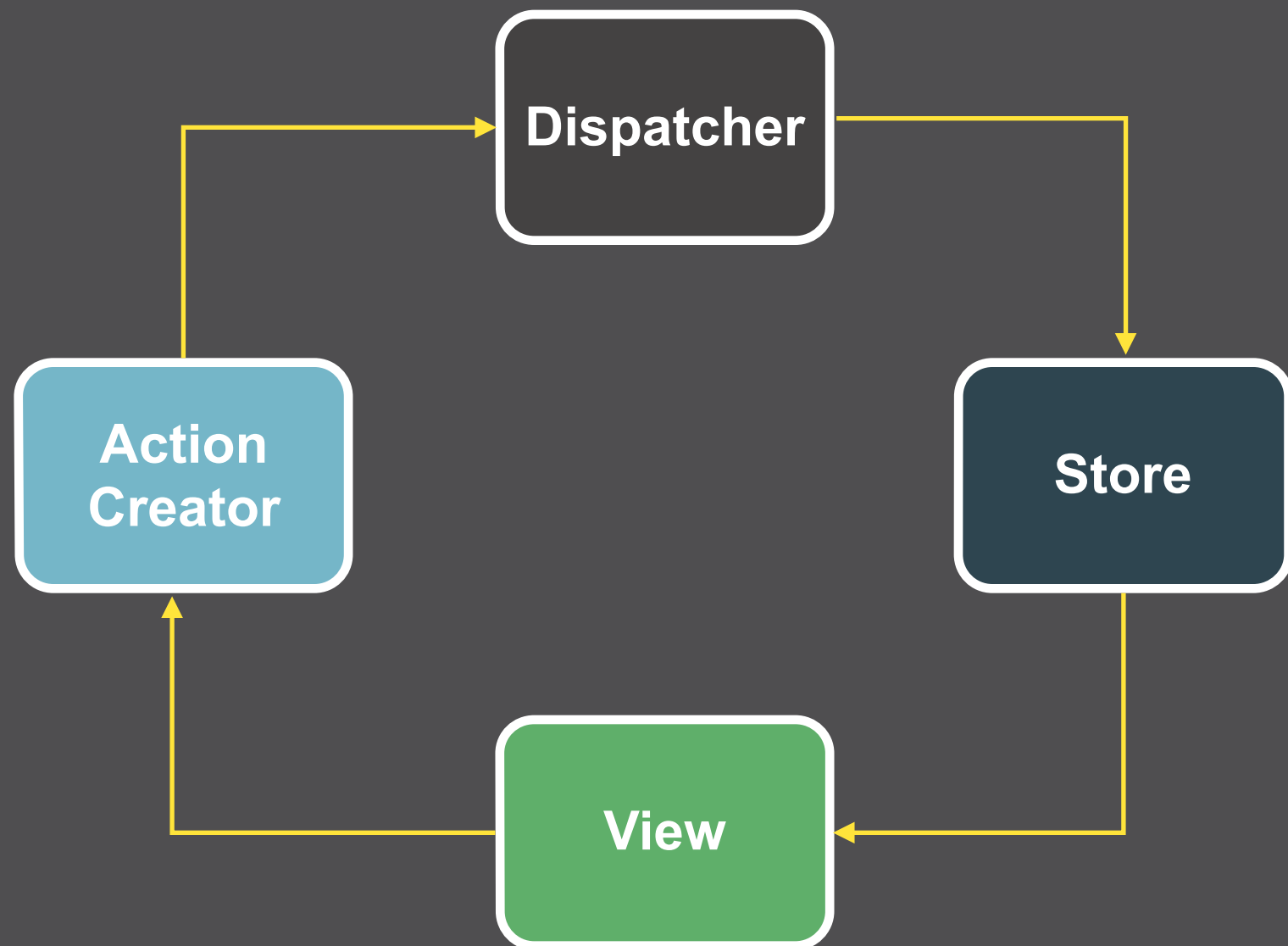
# Data fra backend?



# Hele arkitekturen



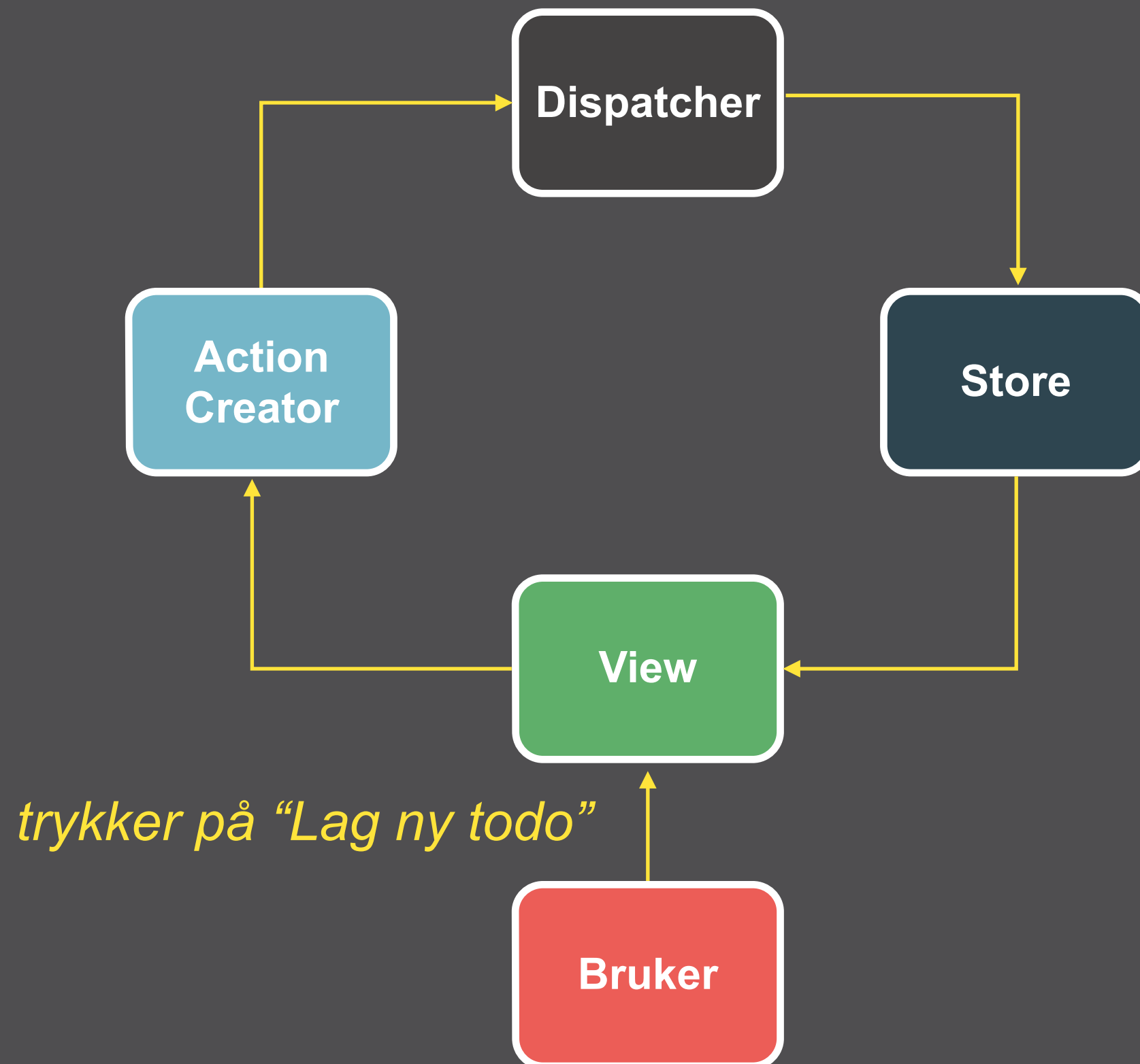
# Mental modell

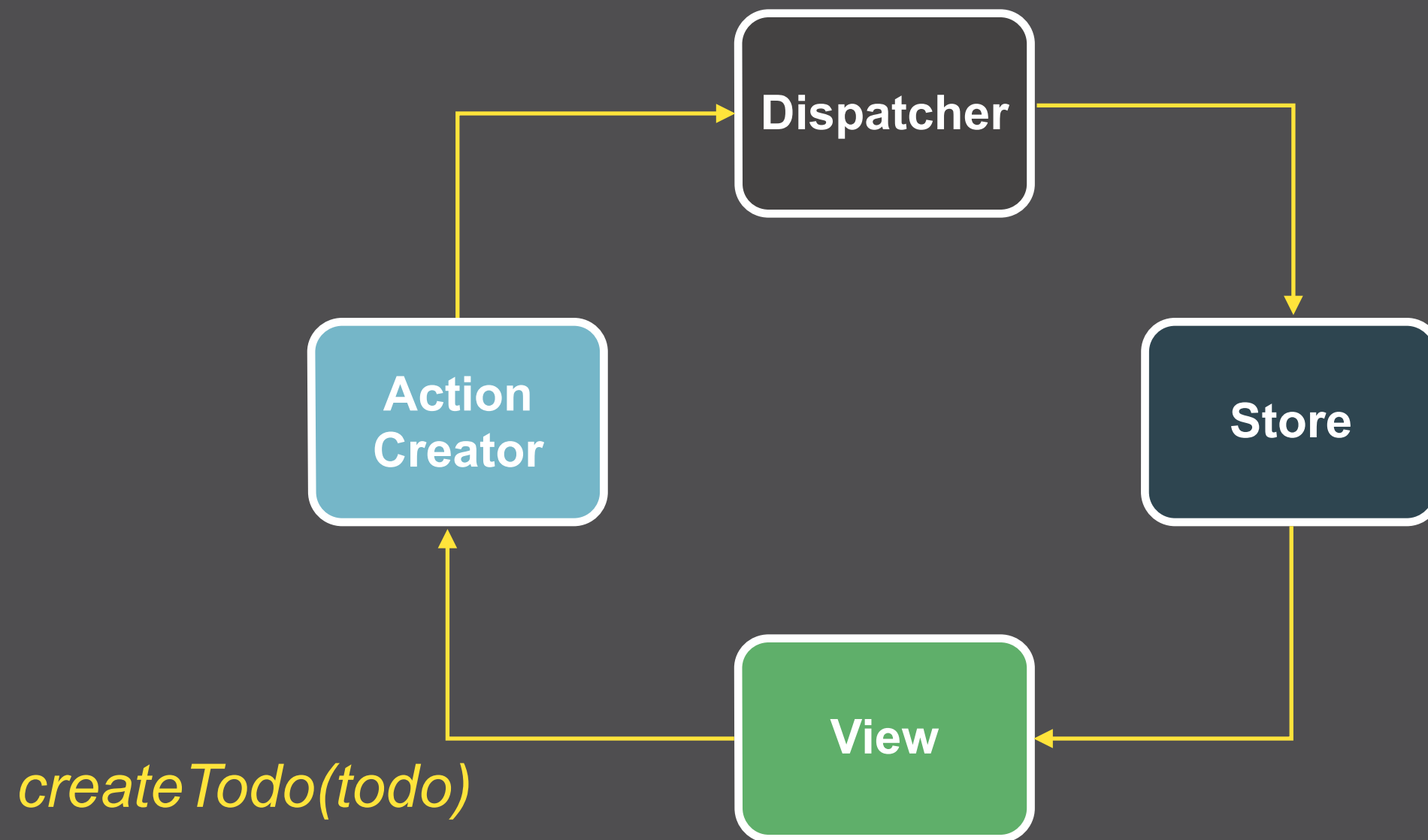




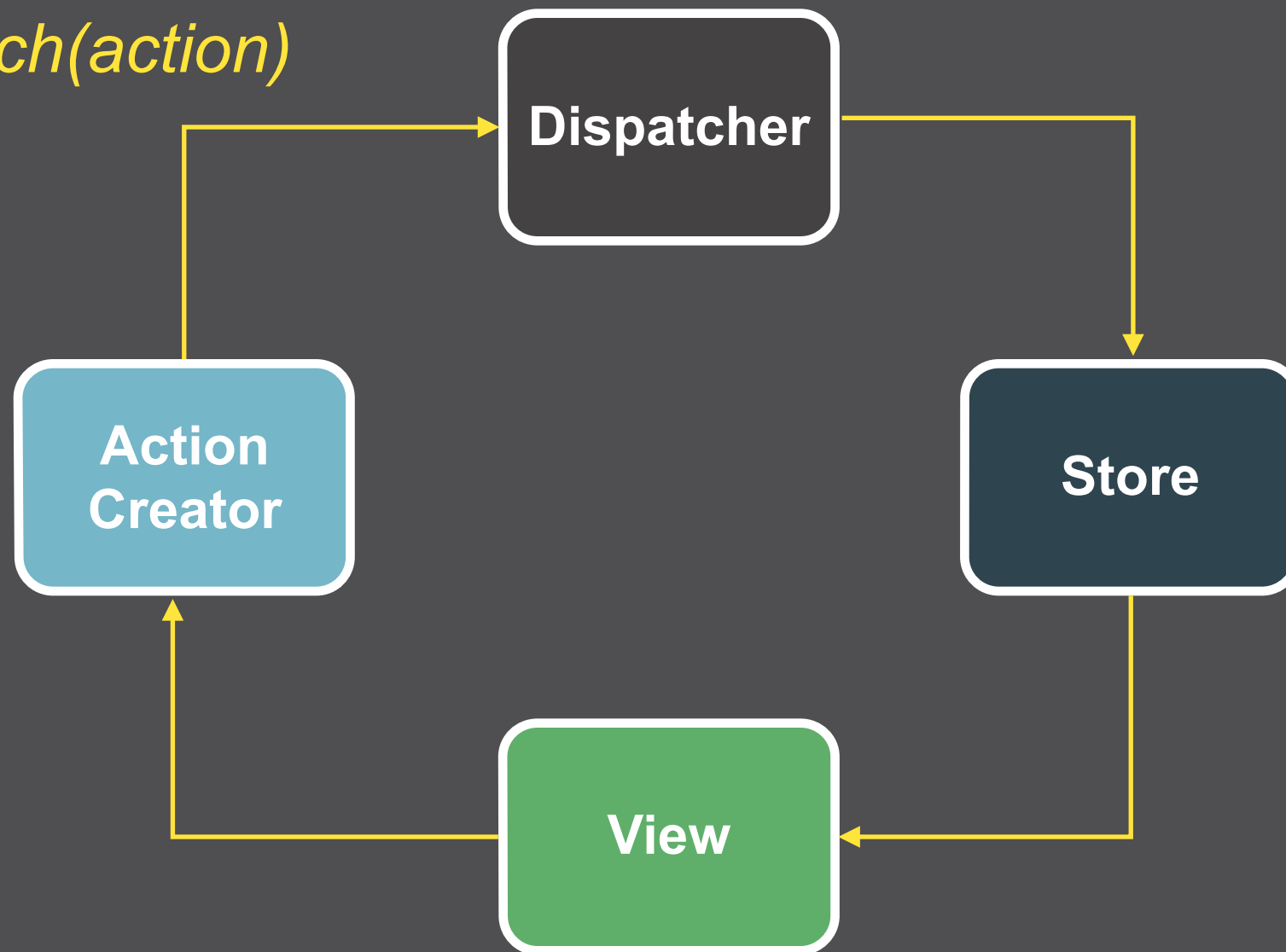
# Eksempelscenario

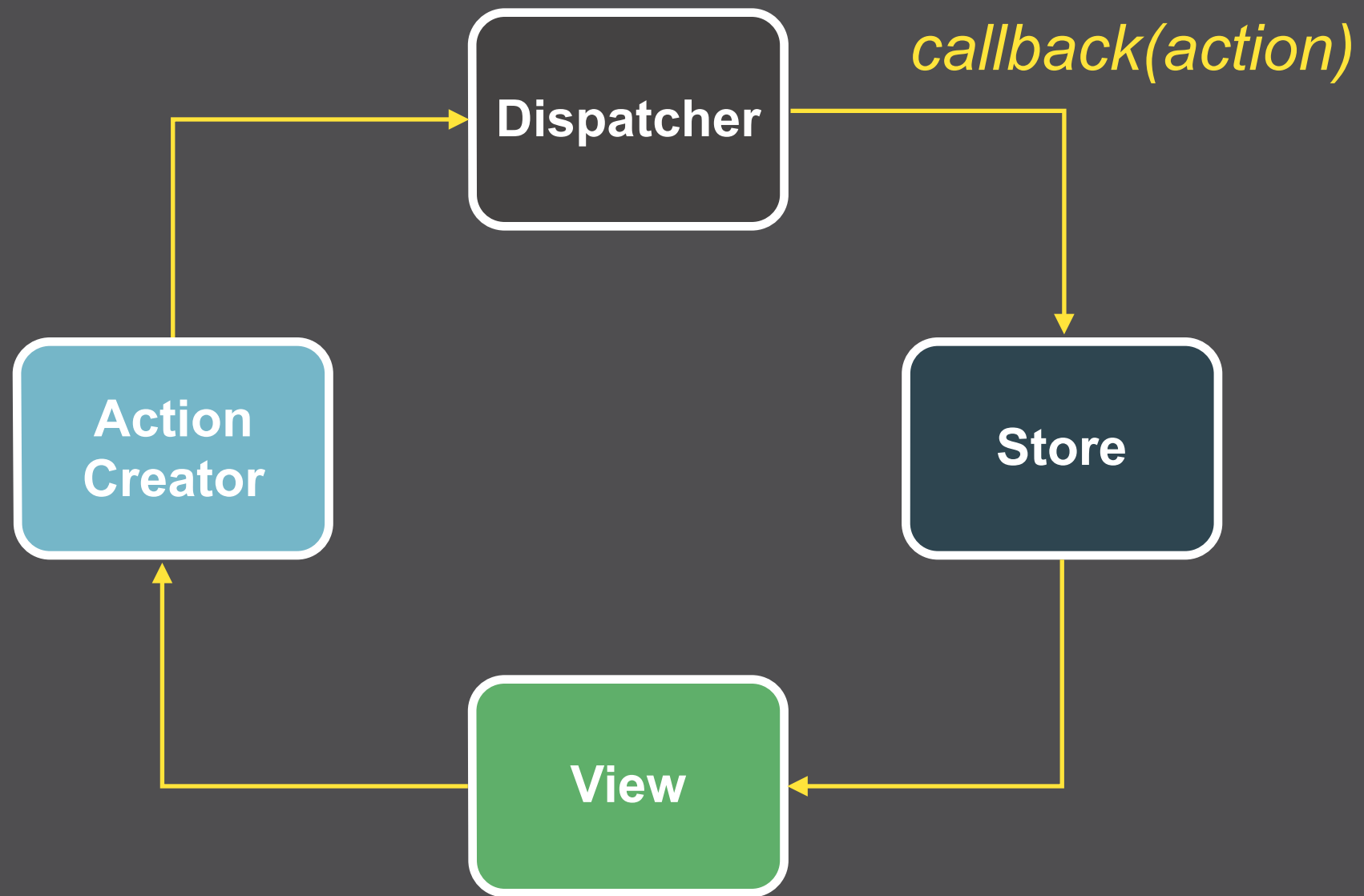
**En Todo-App!**

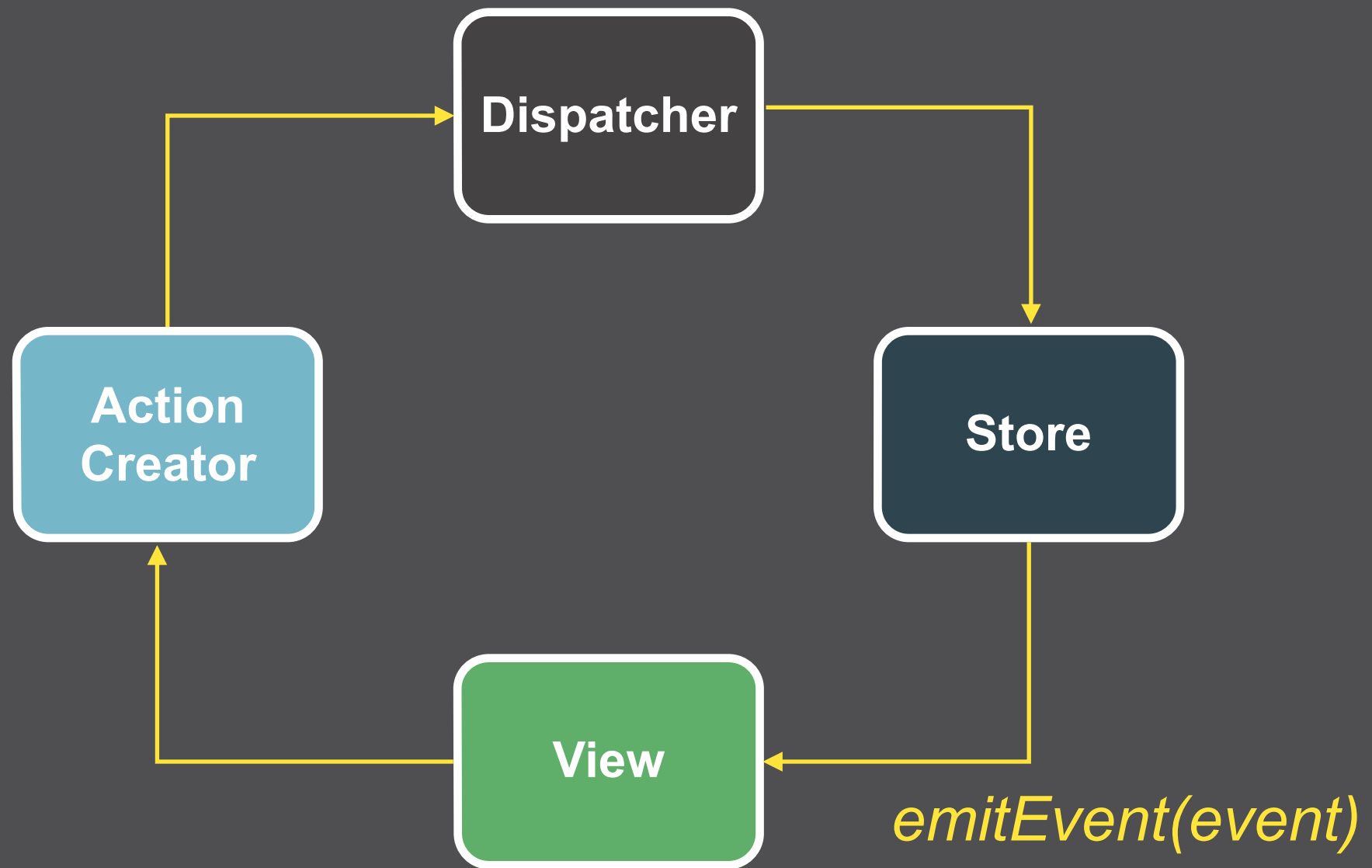


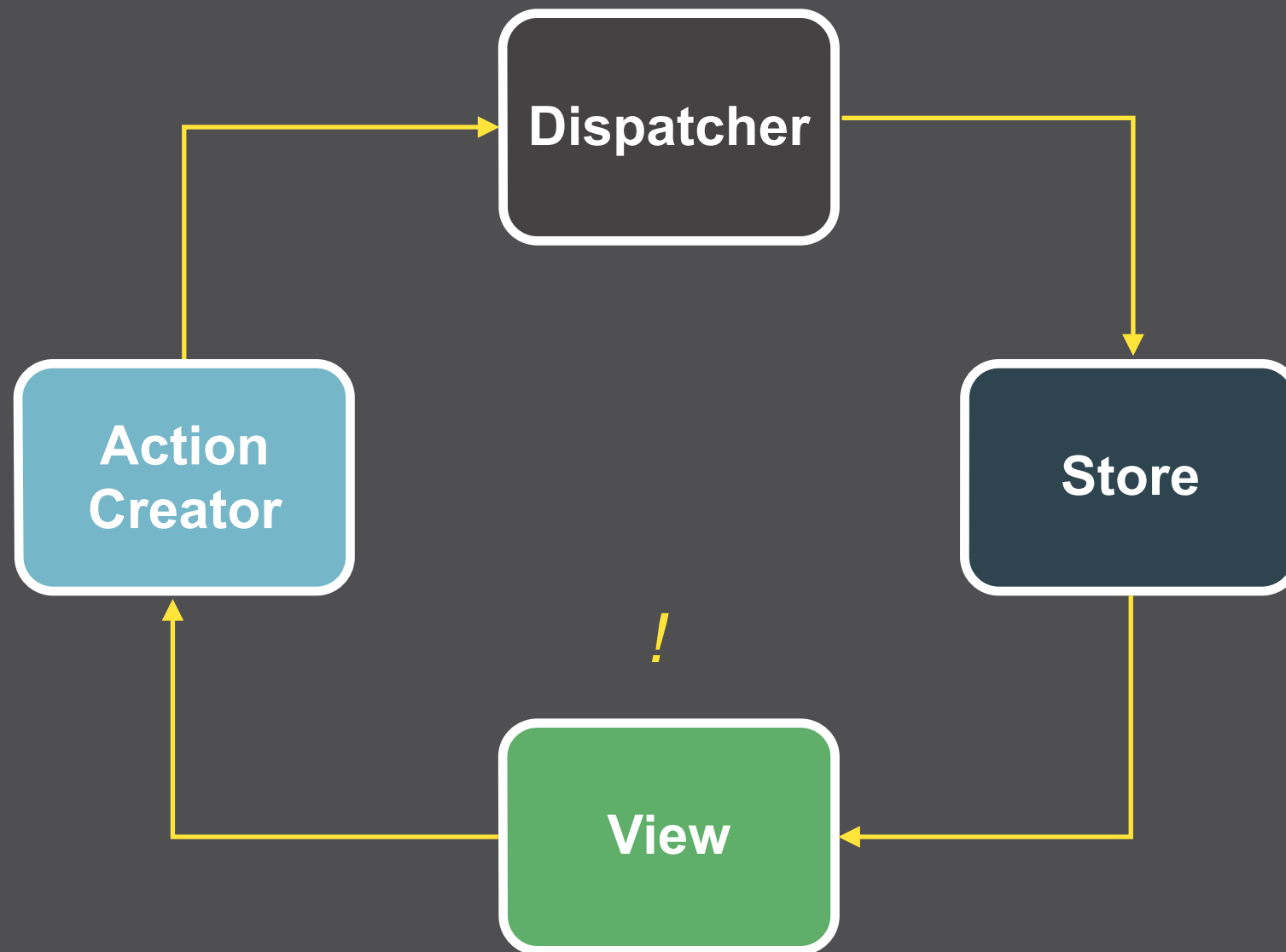


*dispatch(action)*

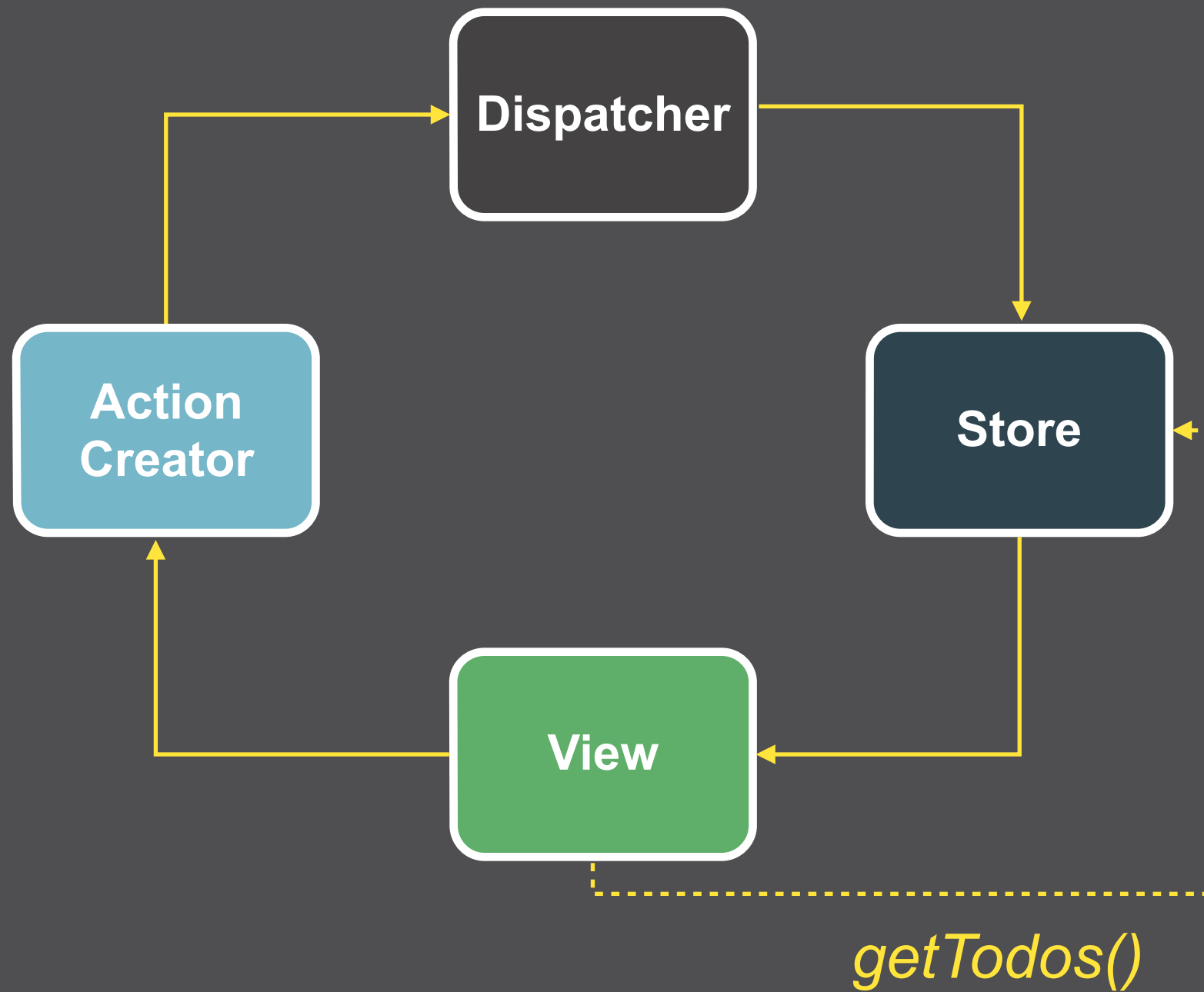


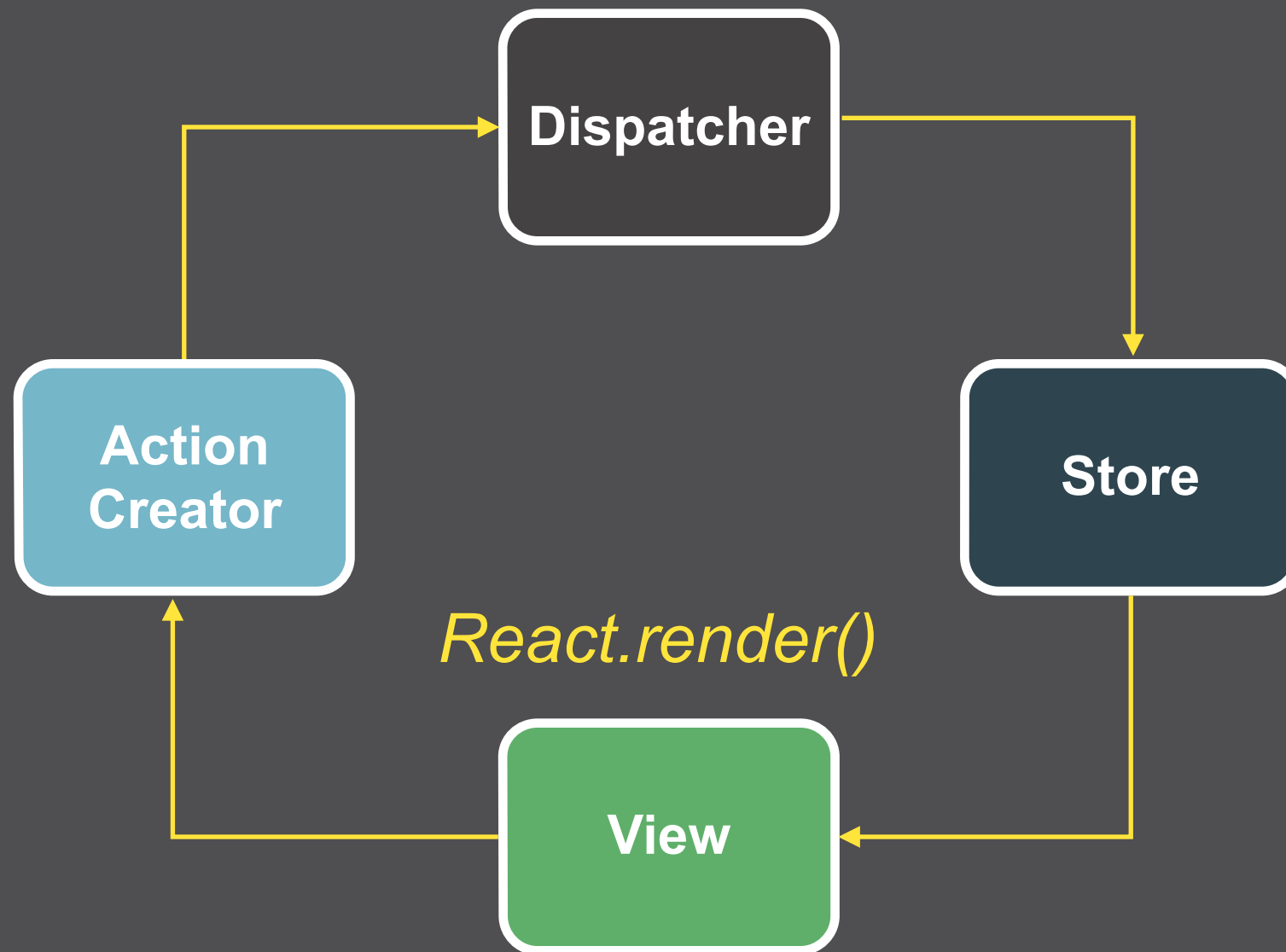


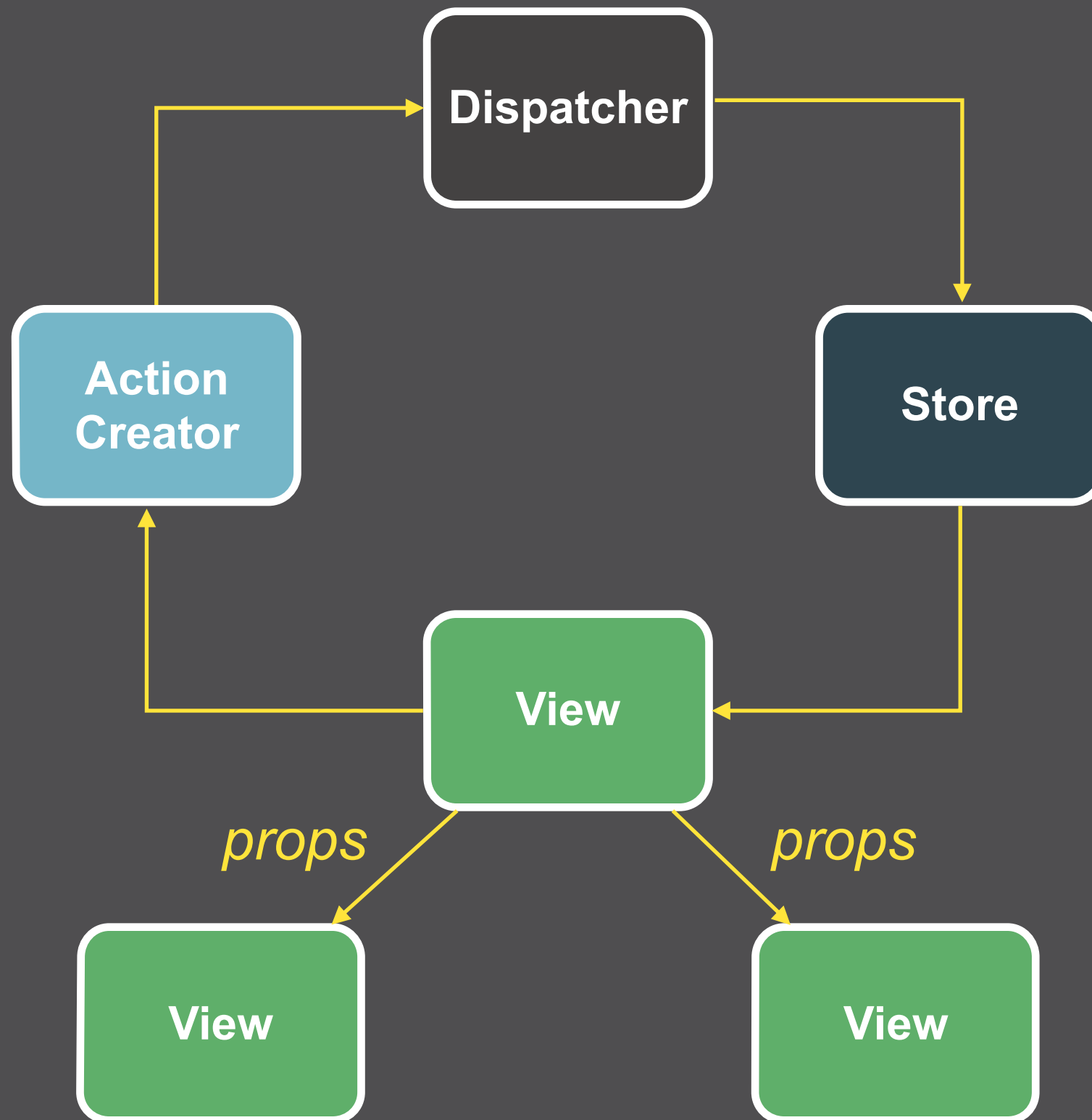


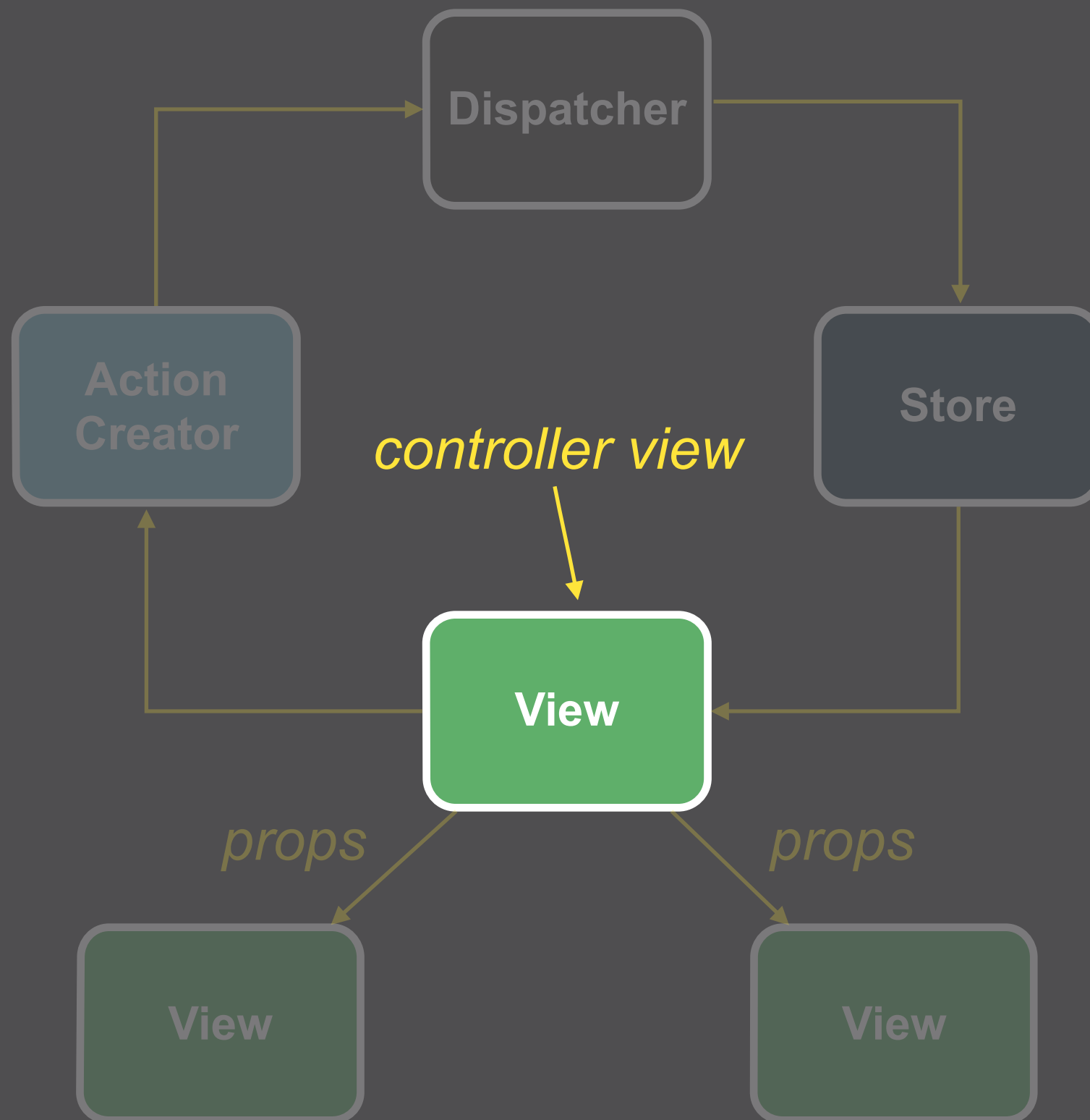




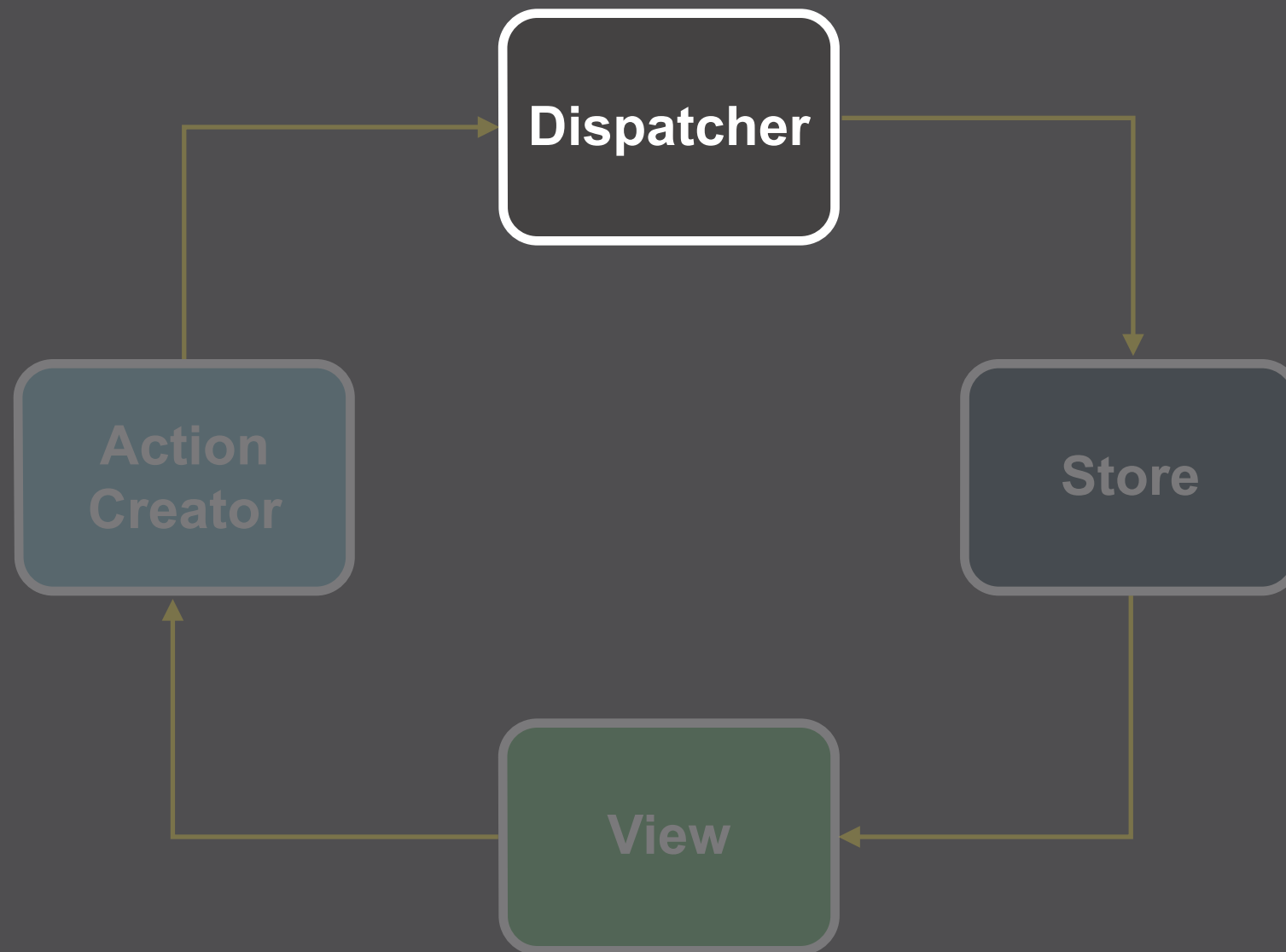


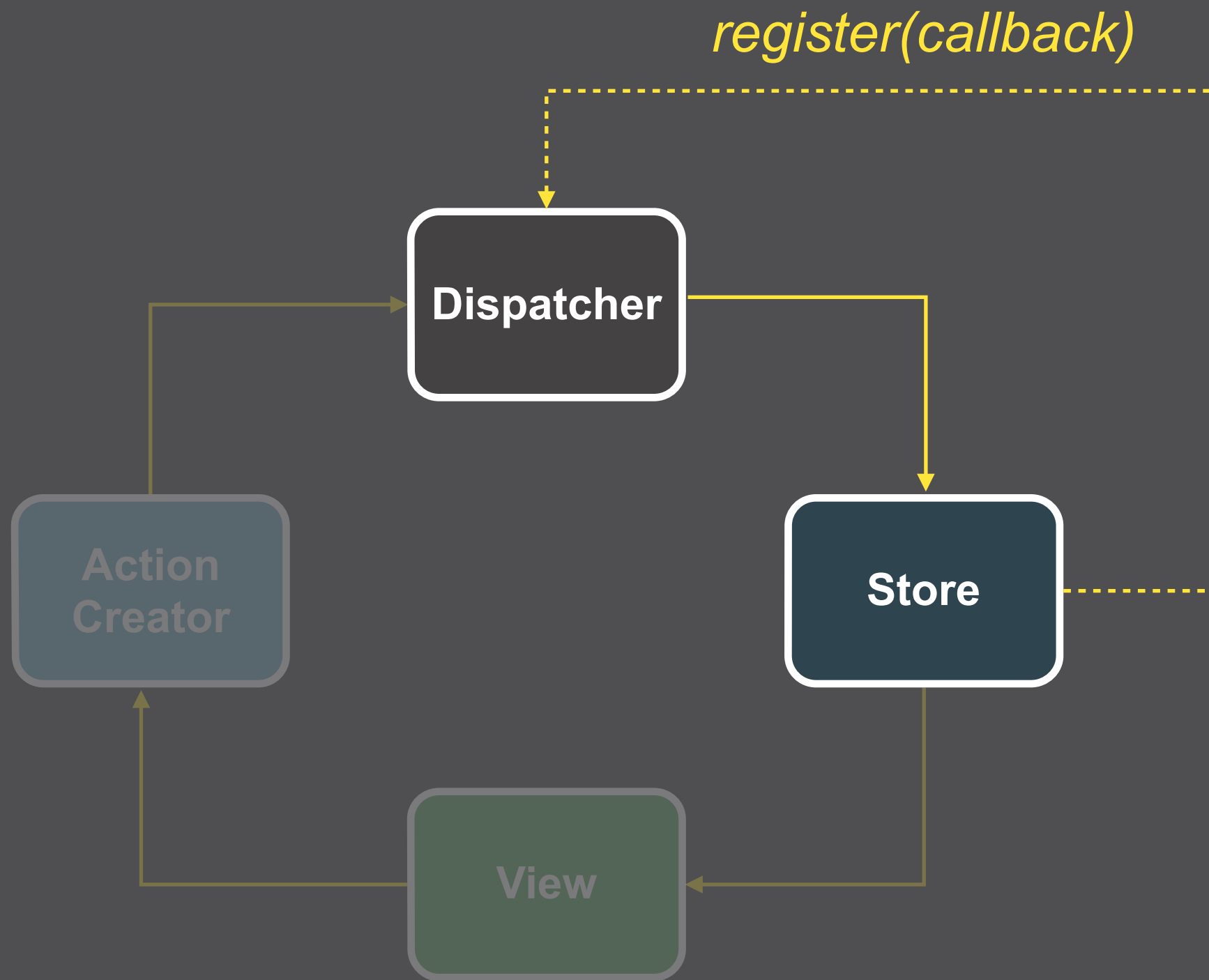




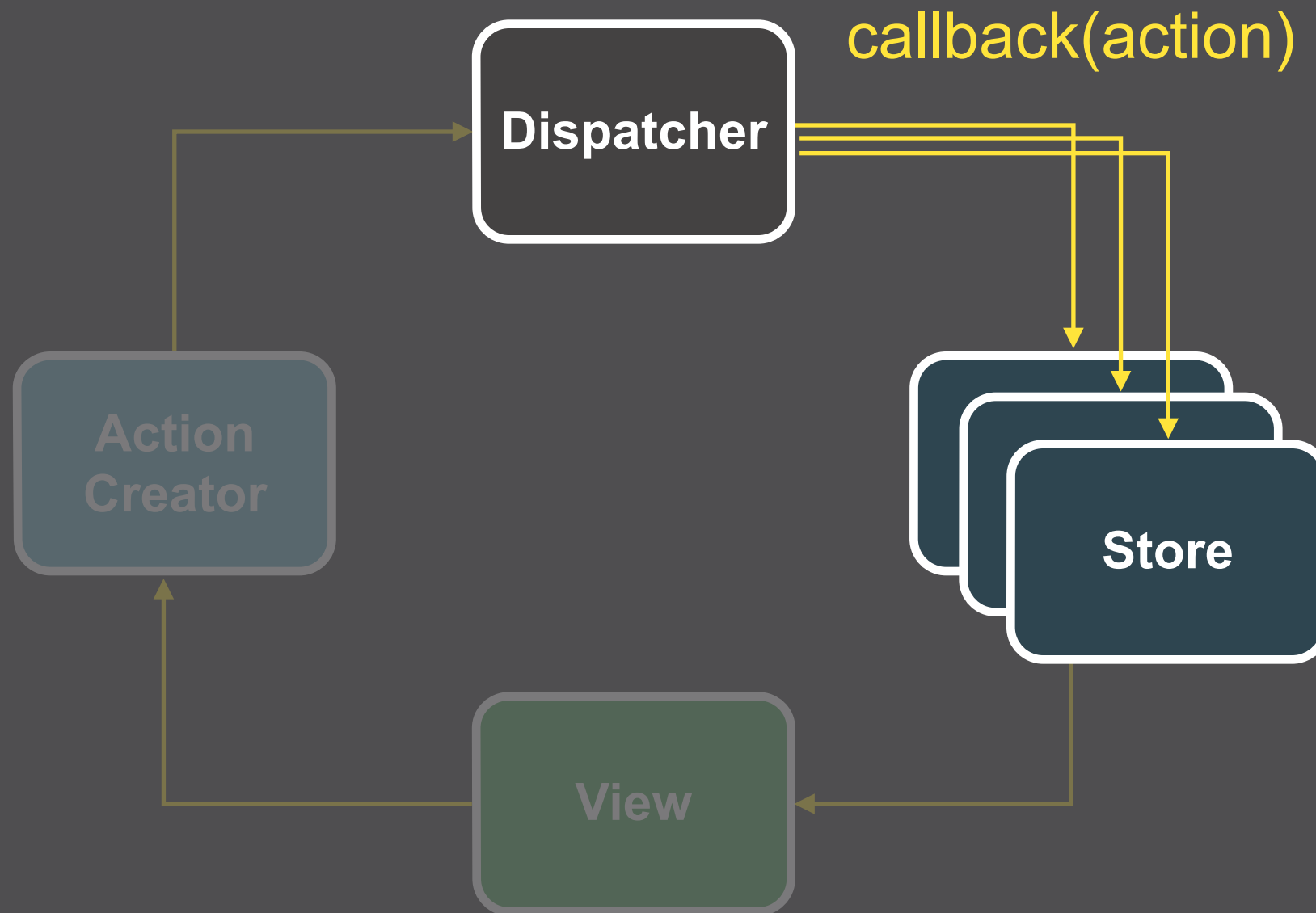


# Centrale komponenter



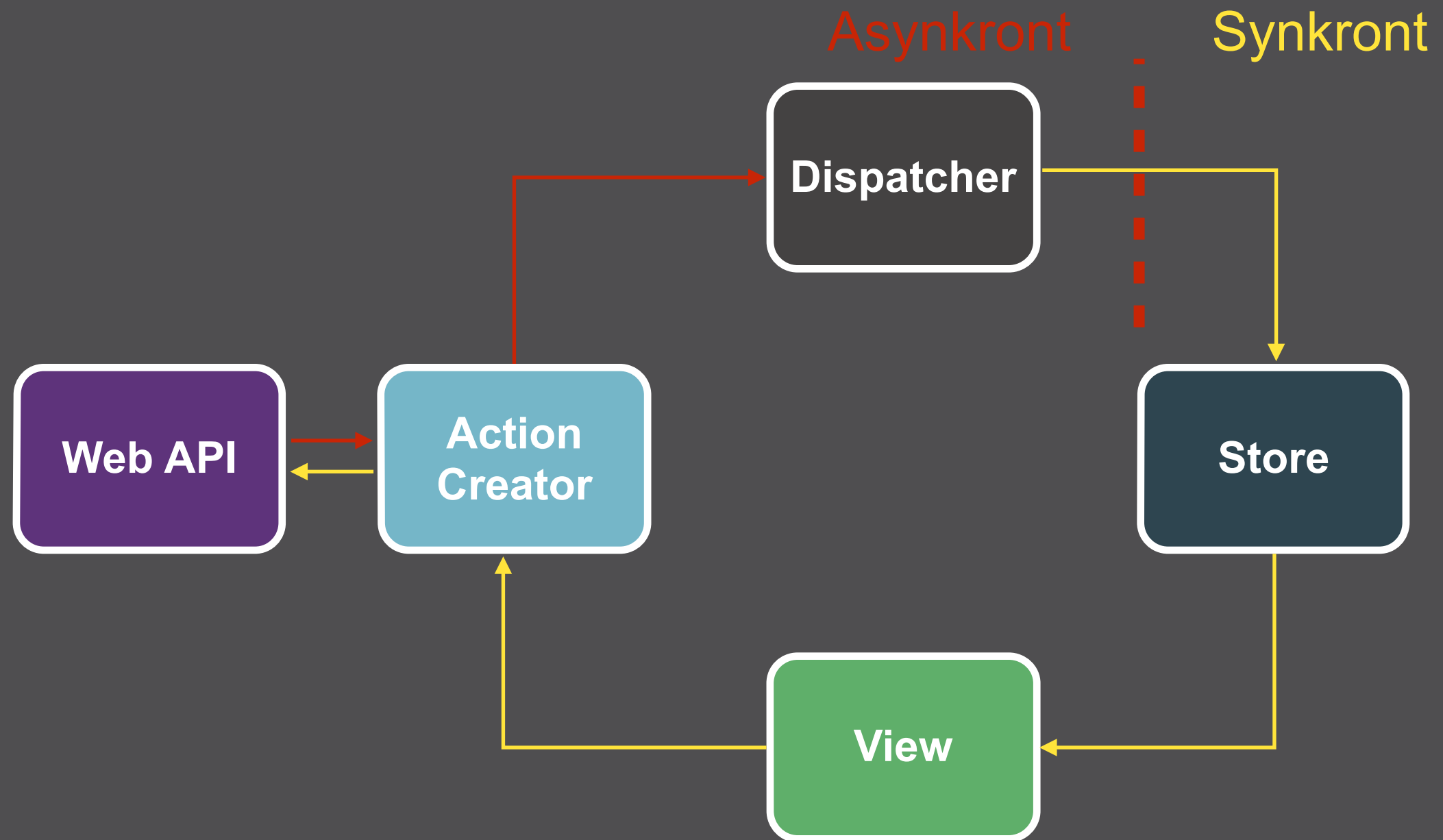


# Synkron broadcasting

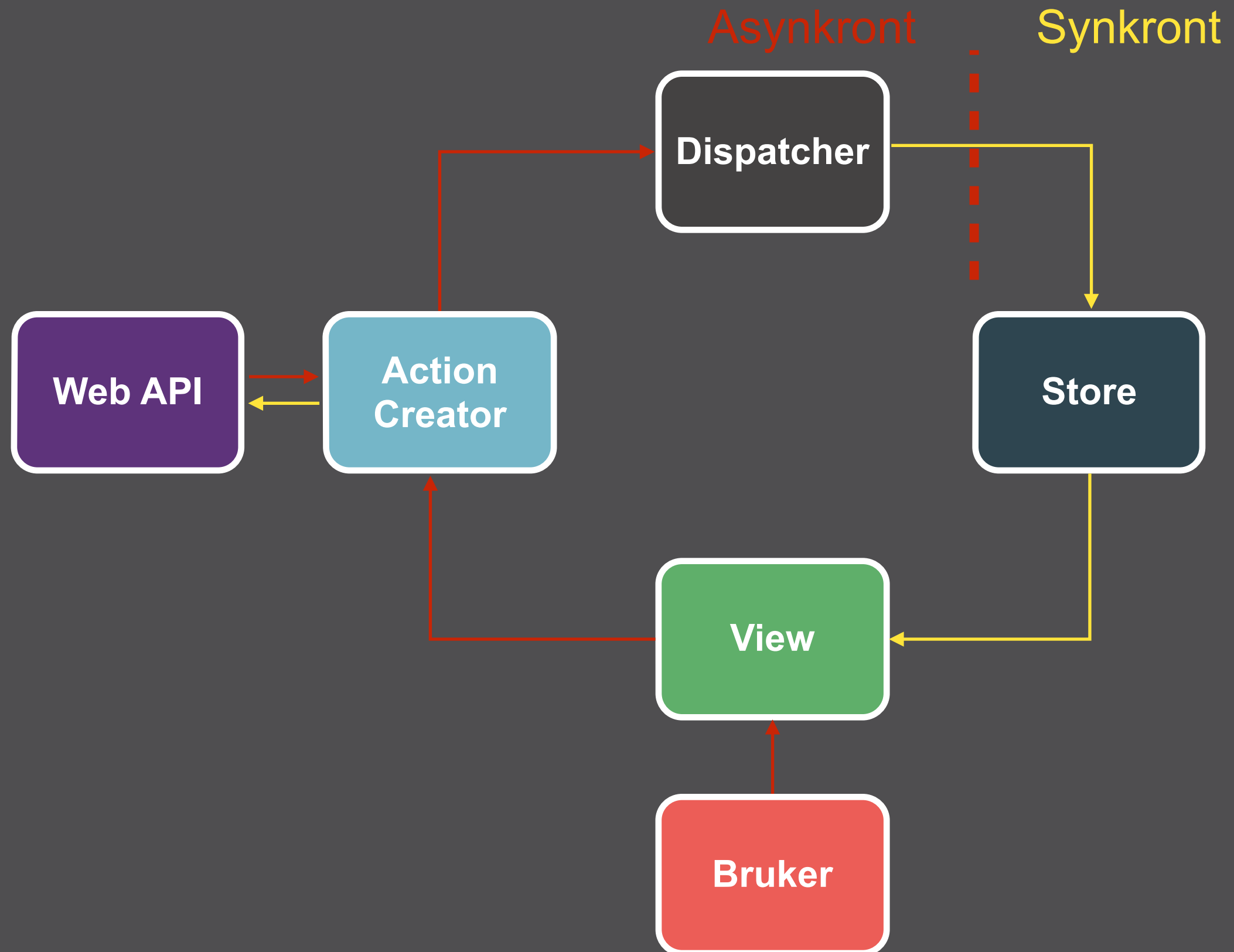




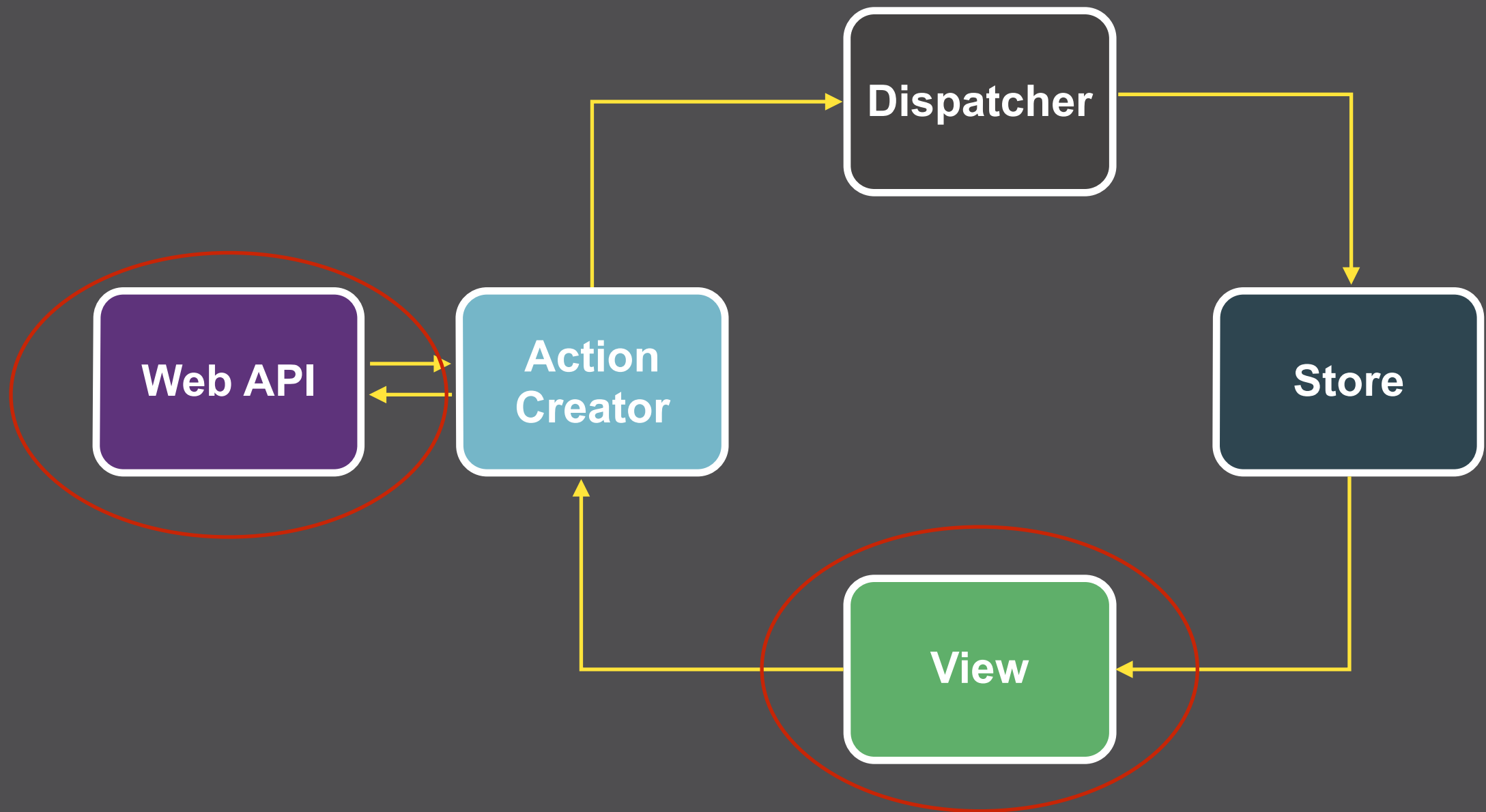
# Async “barriere”



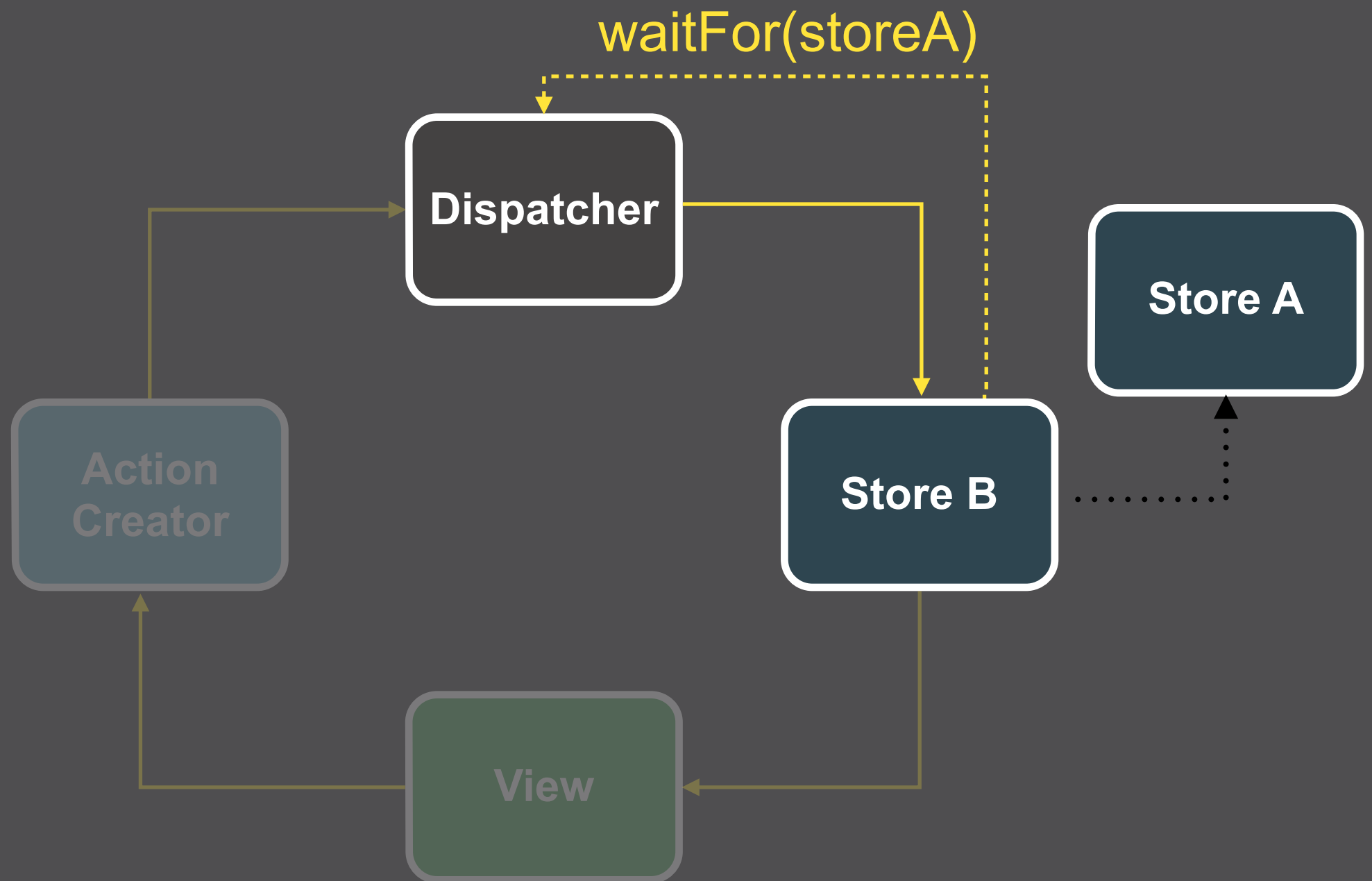
# Async “barriere”



# Isolering av async



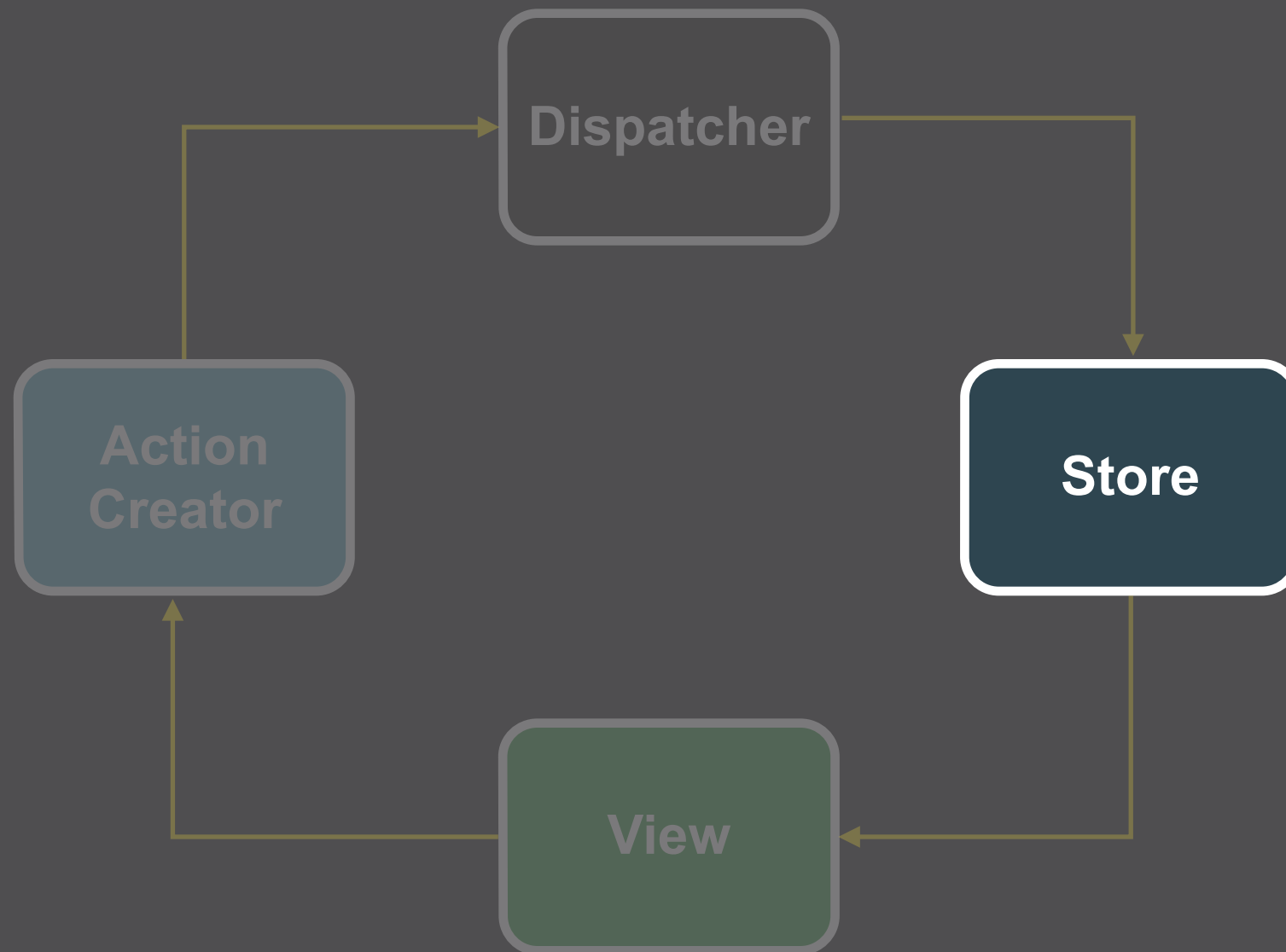
# Avhengigheter



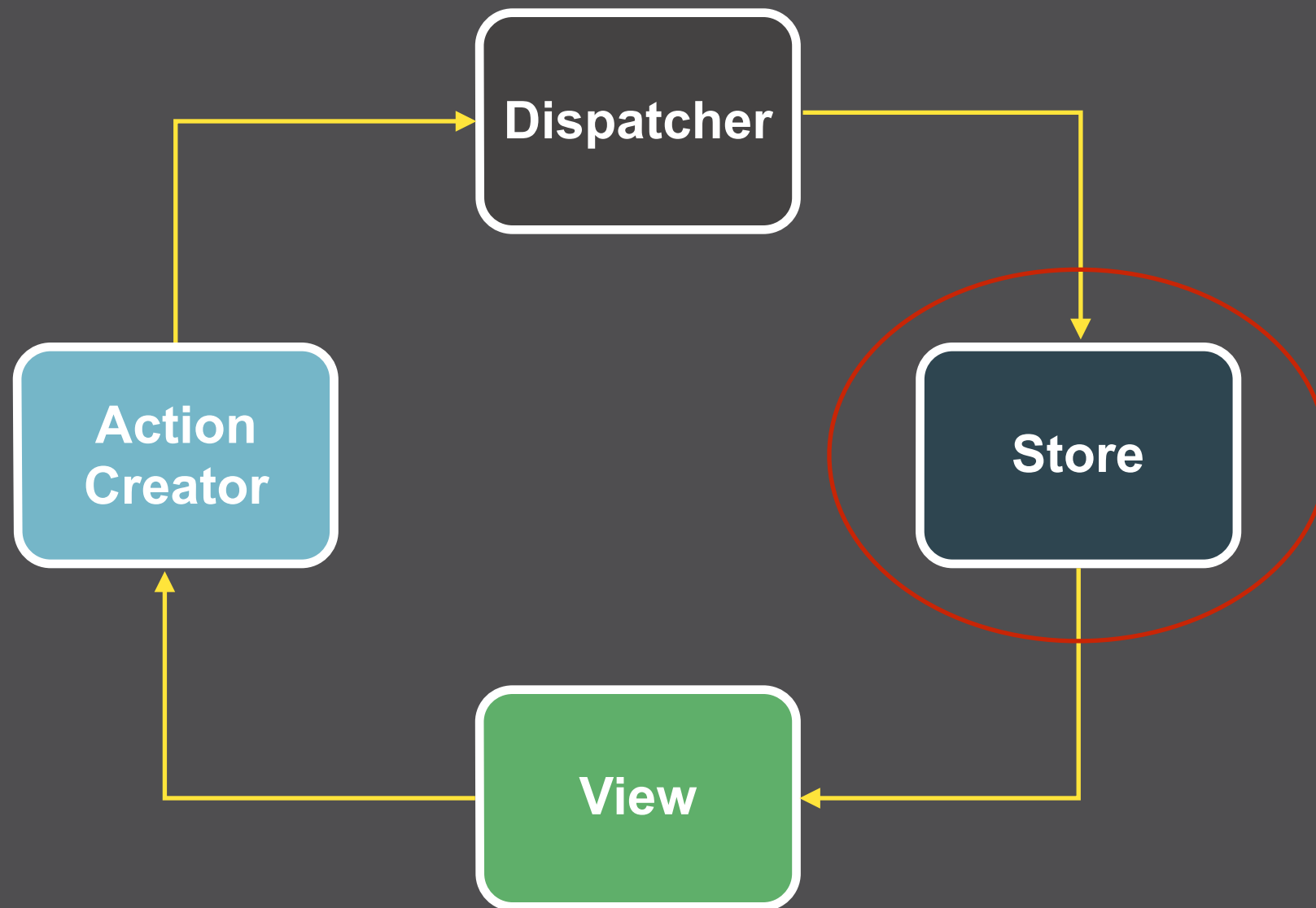


Dispatcher

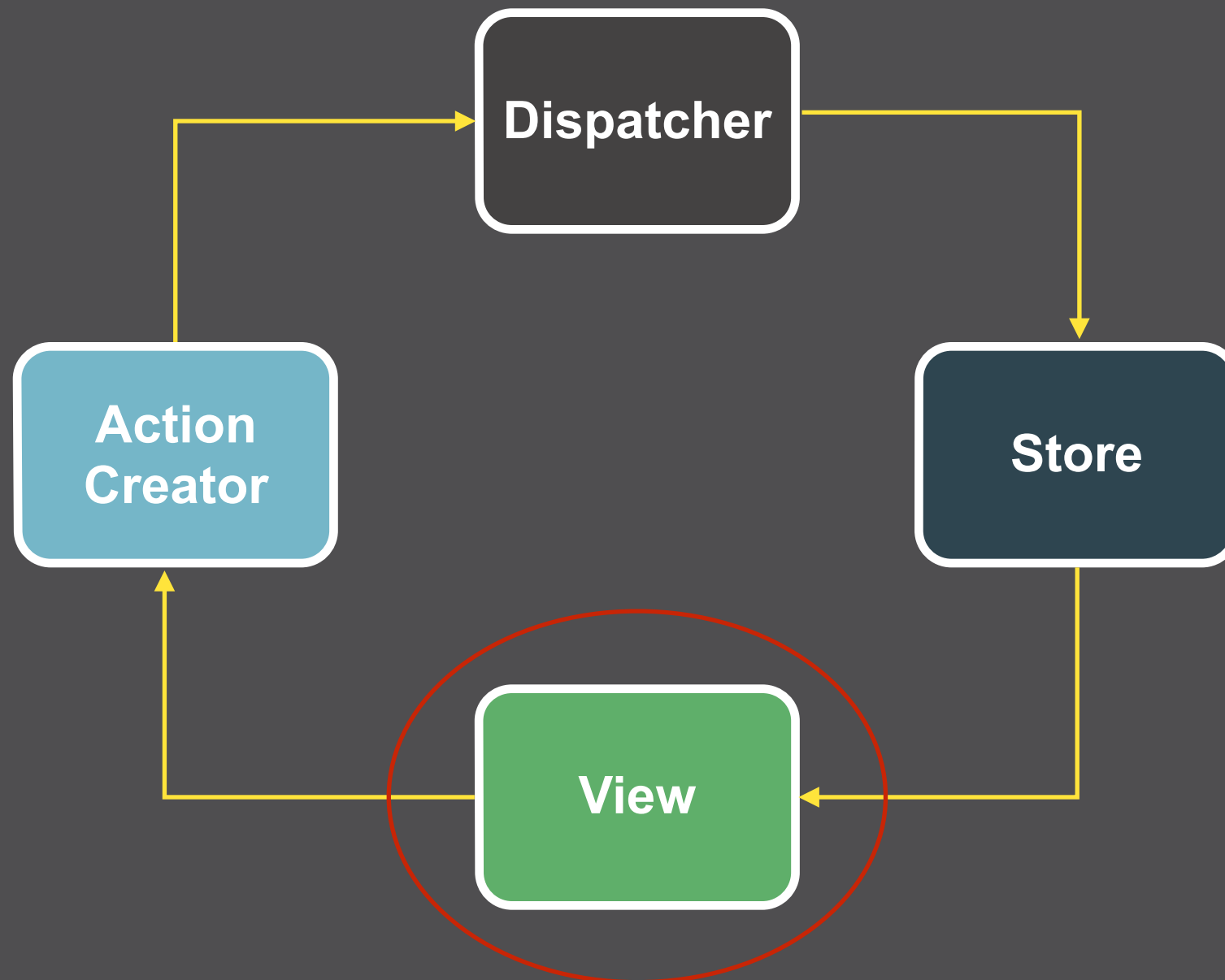
- Register over callbacks i stores
- Barriere mellom asynkront/synkront
- Kan håndtere avhengigheter mellom stores
- *dispatch(action), register(callback), waitFor(store)*



# Isolering av tilstand

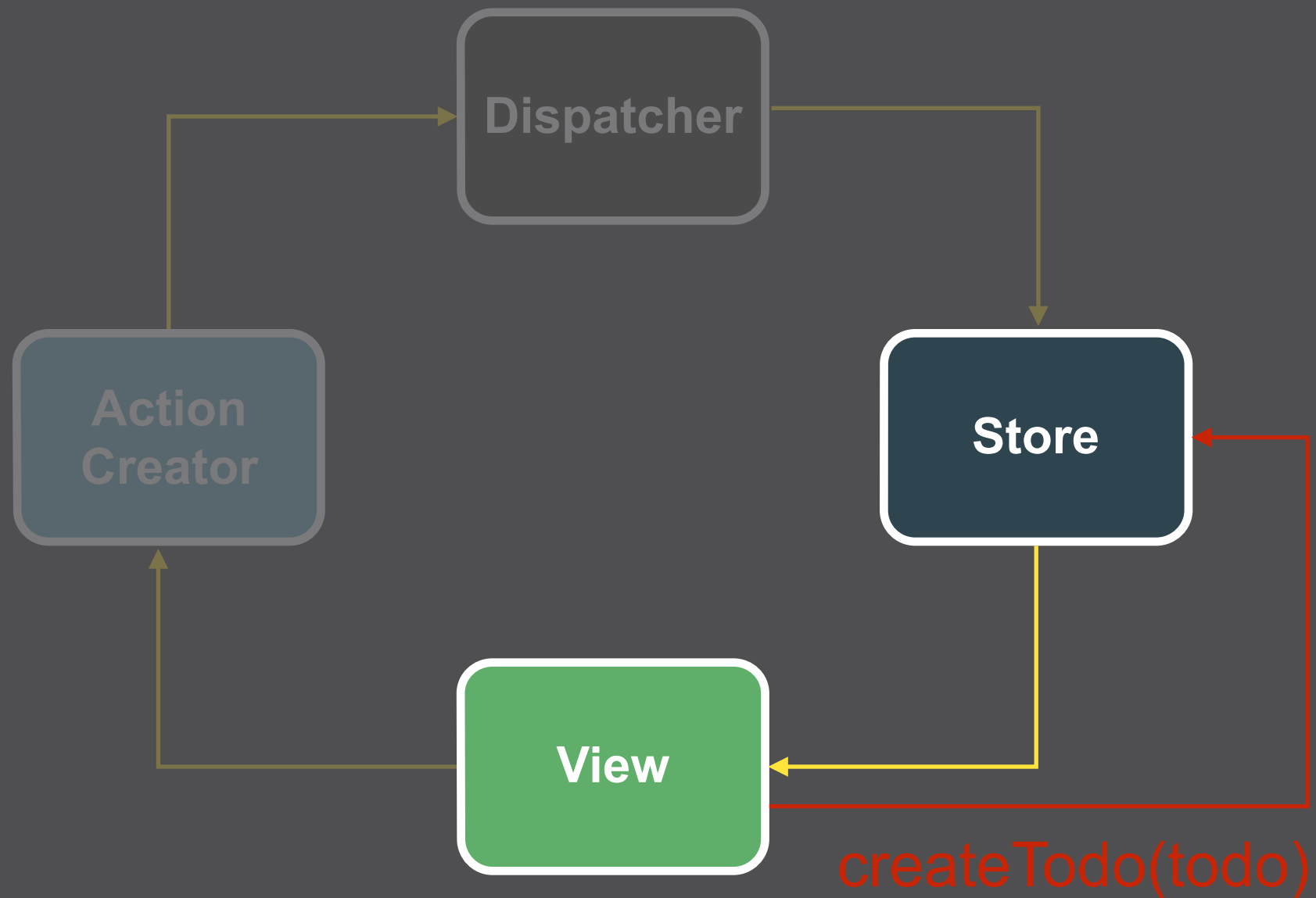


# GUI-tilstand i Views

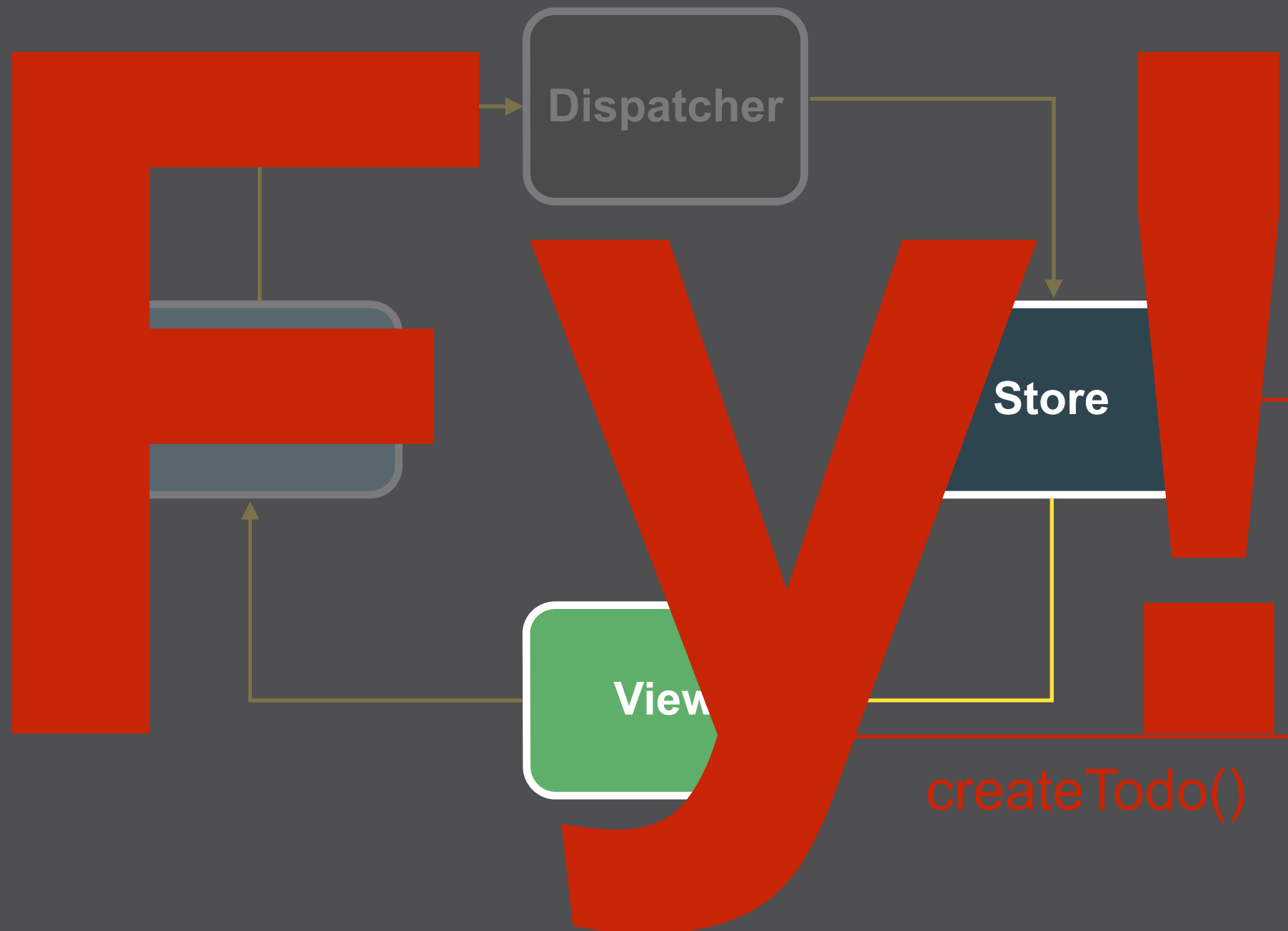




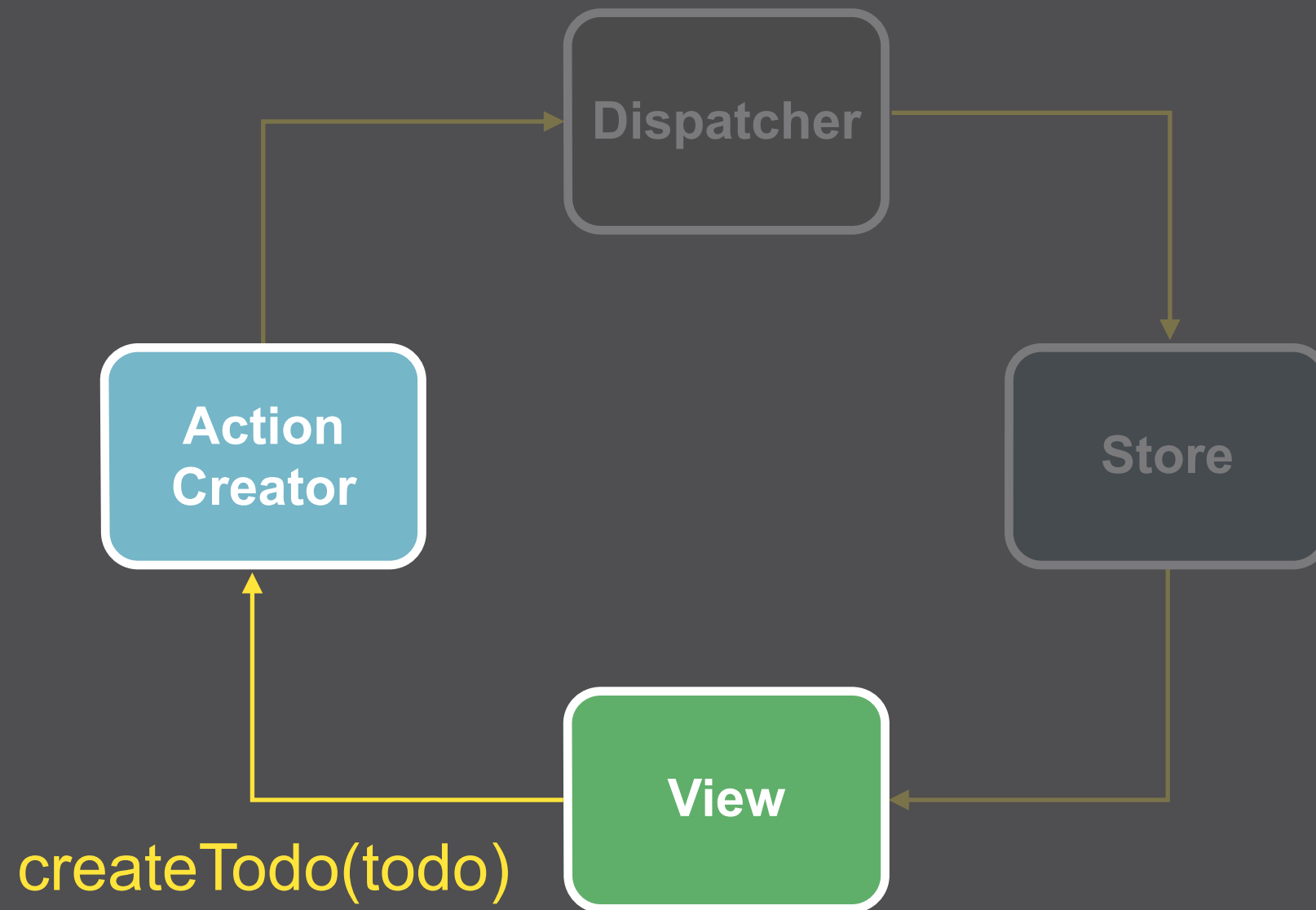
# Kun lesetilgang



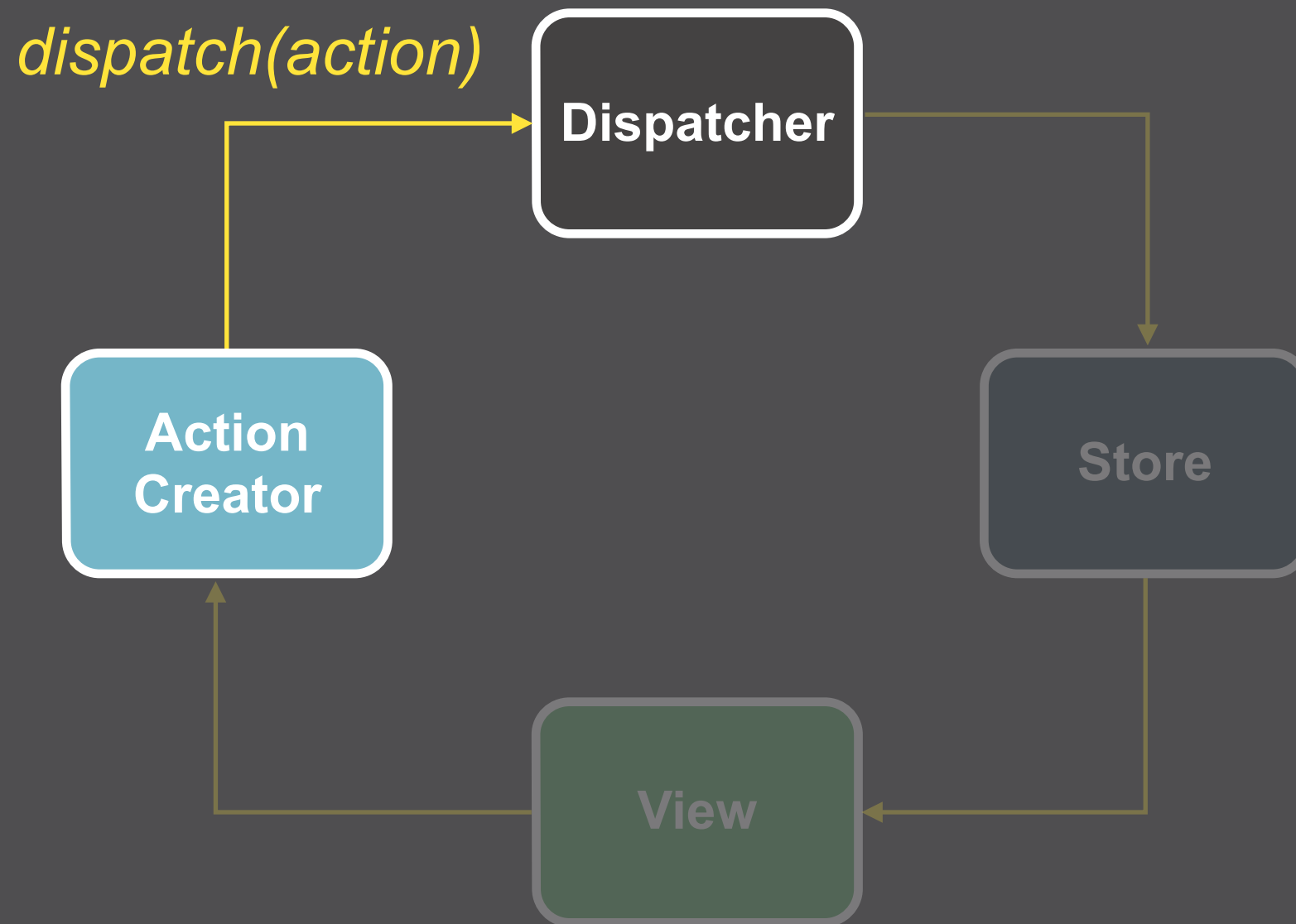
# Kun lesetilgang



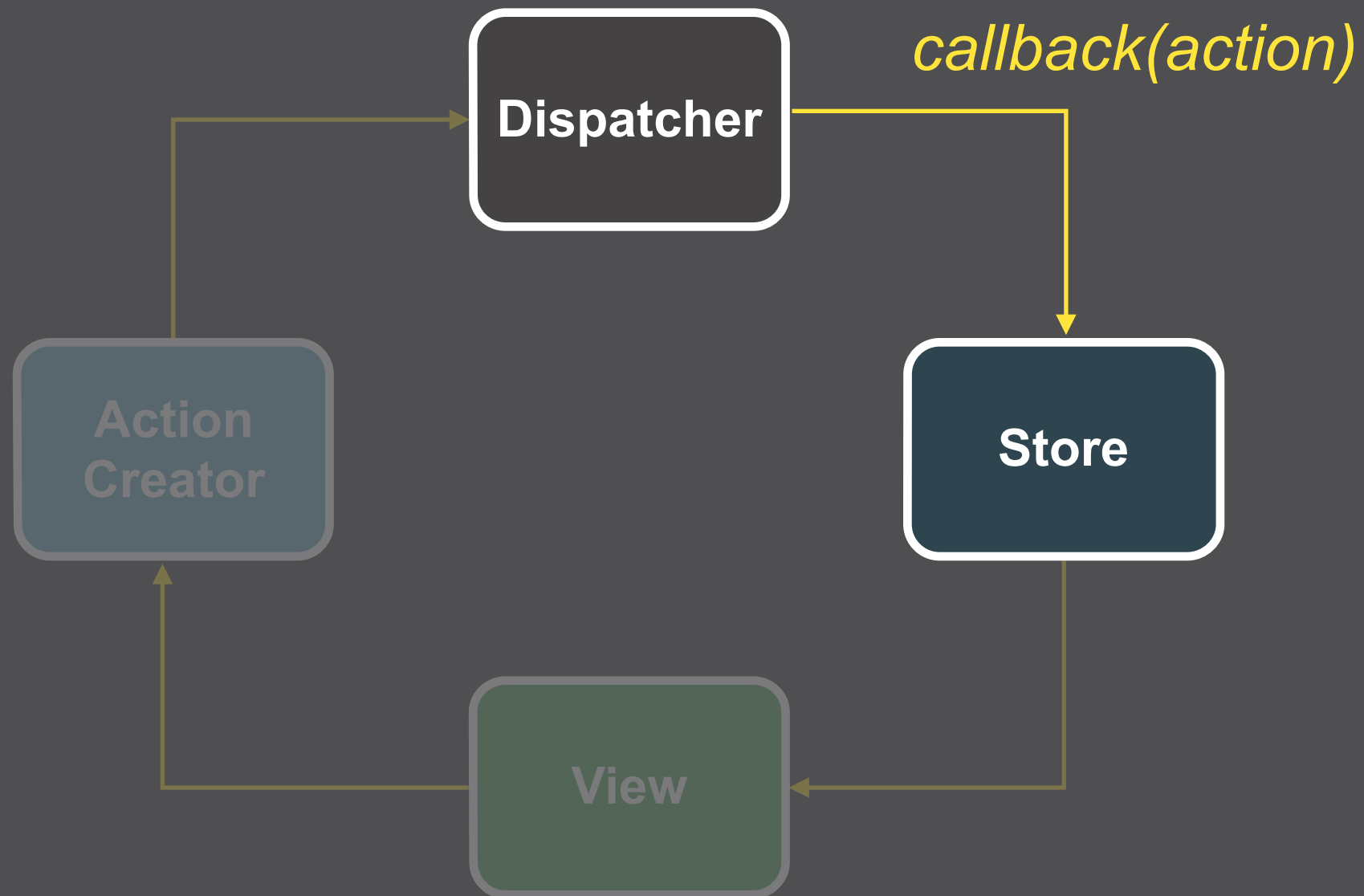
# Kun lesetilgang



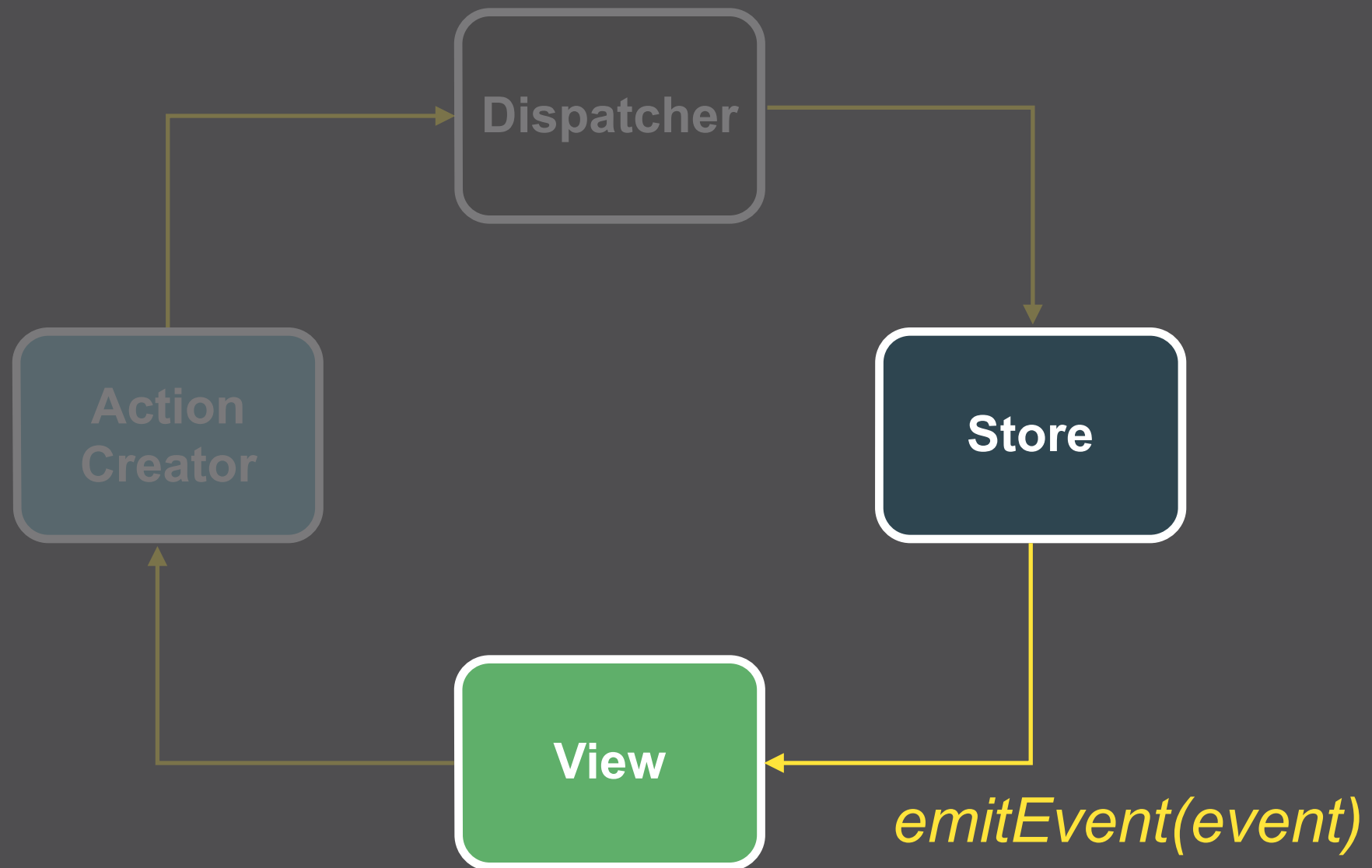
# Kun lesetilgang



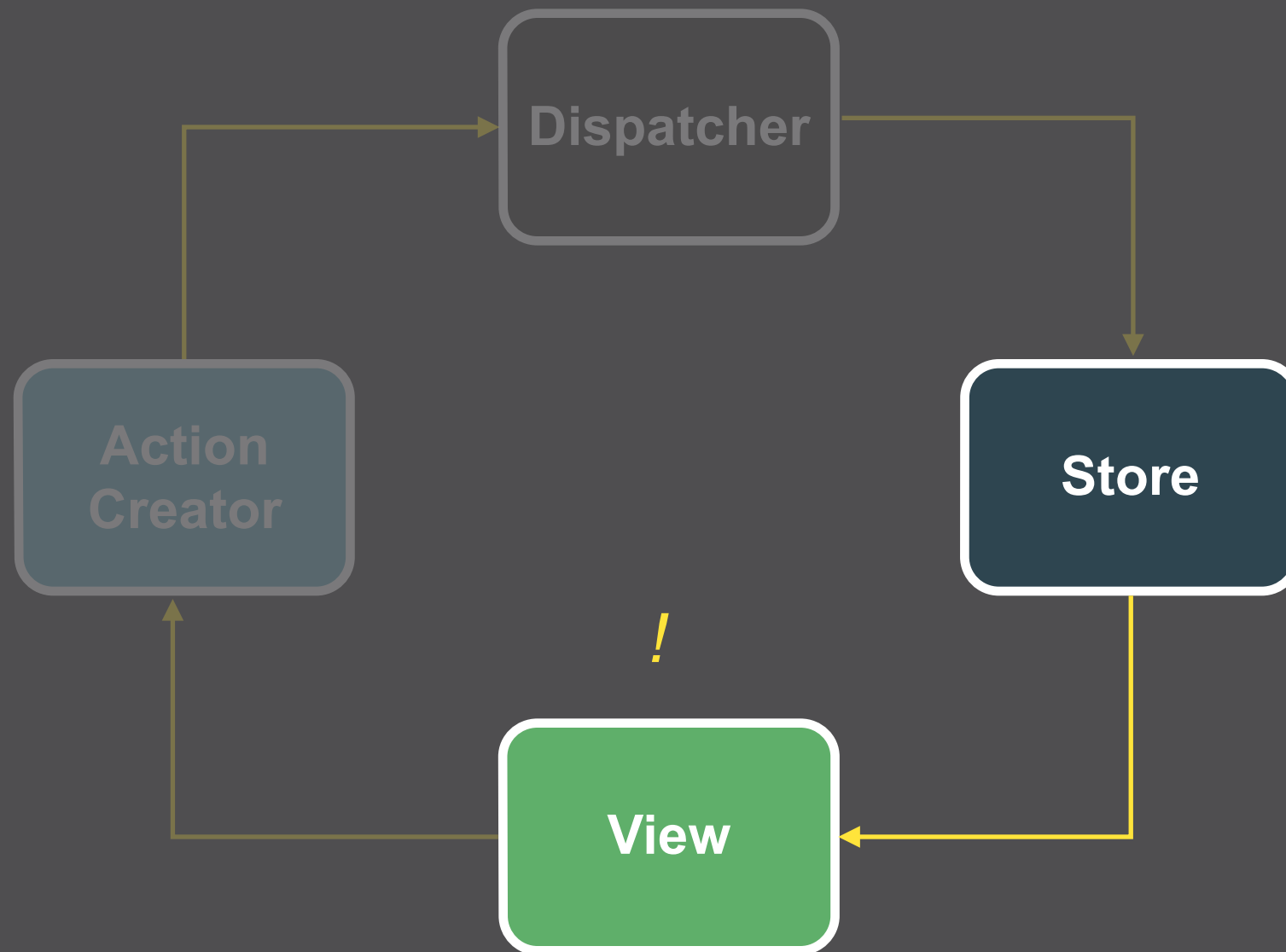
# Kun lesetilgang



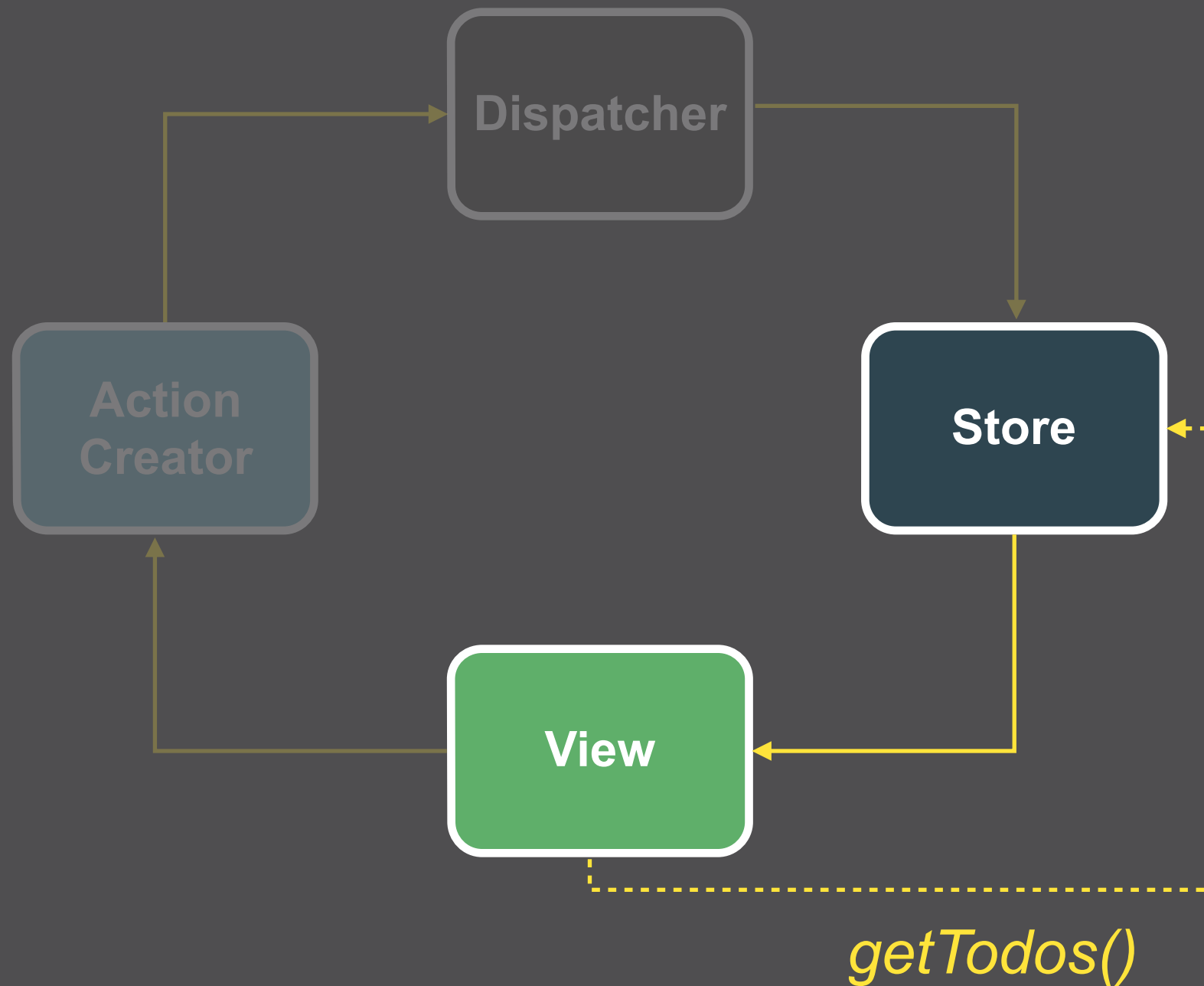
# Kun lesetilgang



# Kun lesetilgang



# Kun lesetilgang

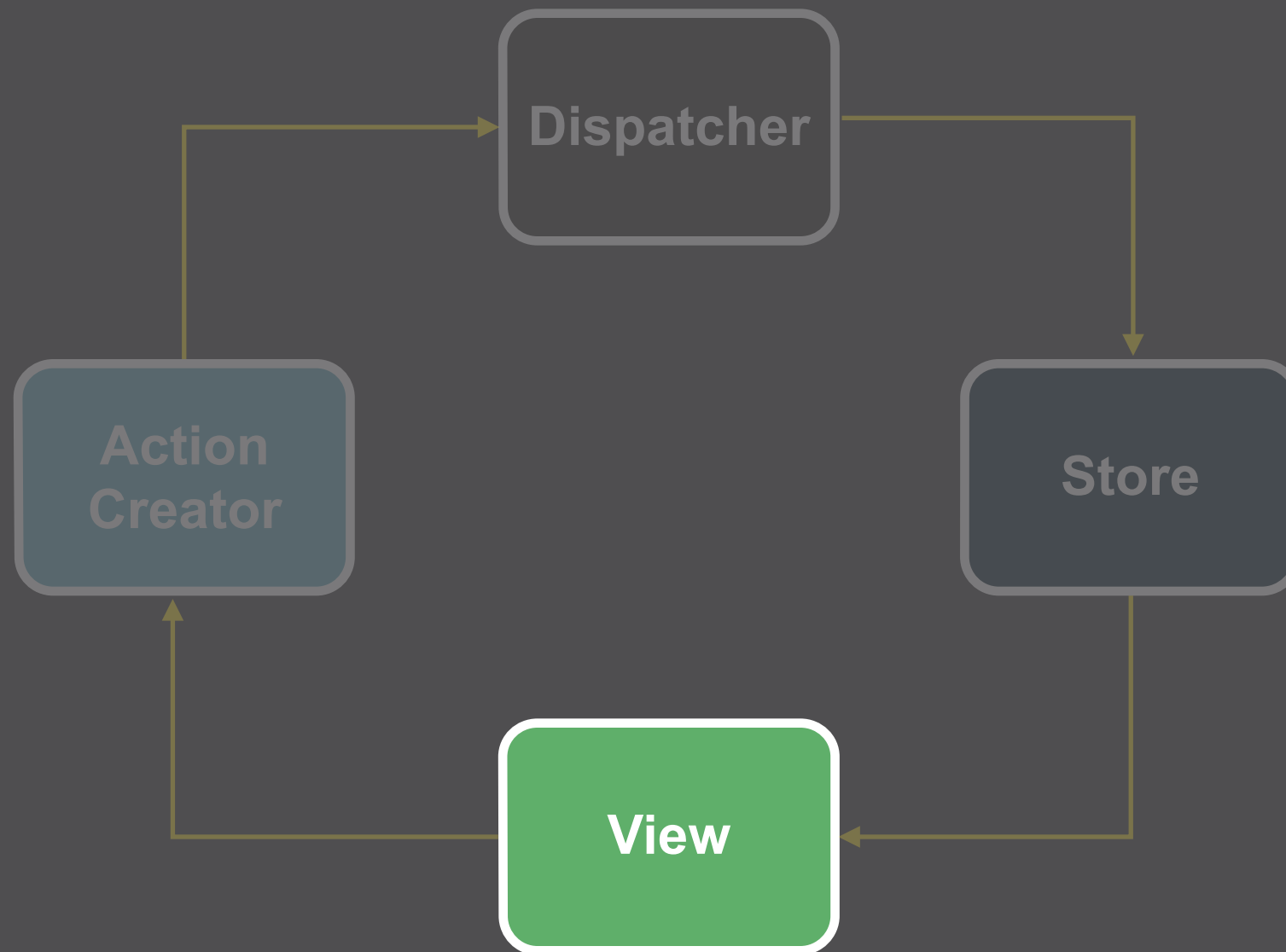


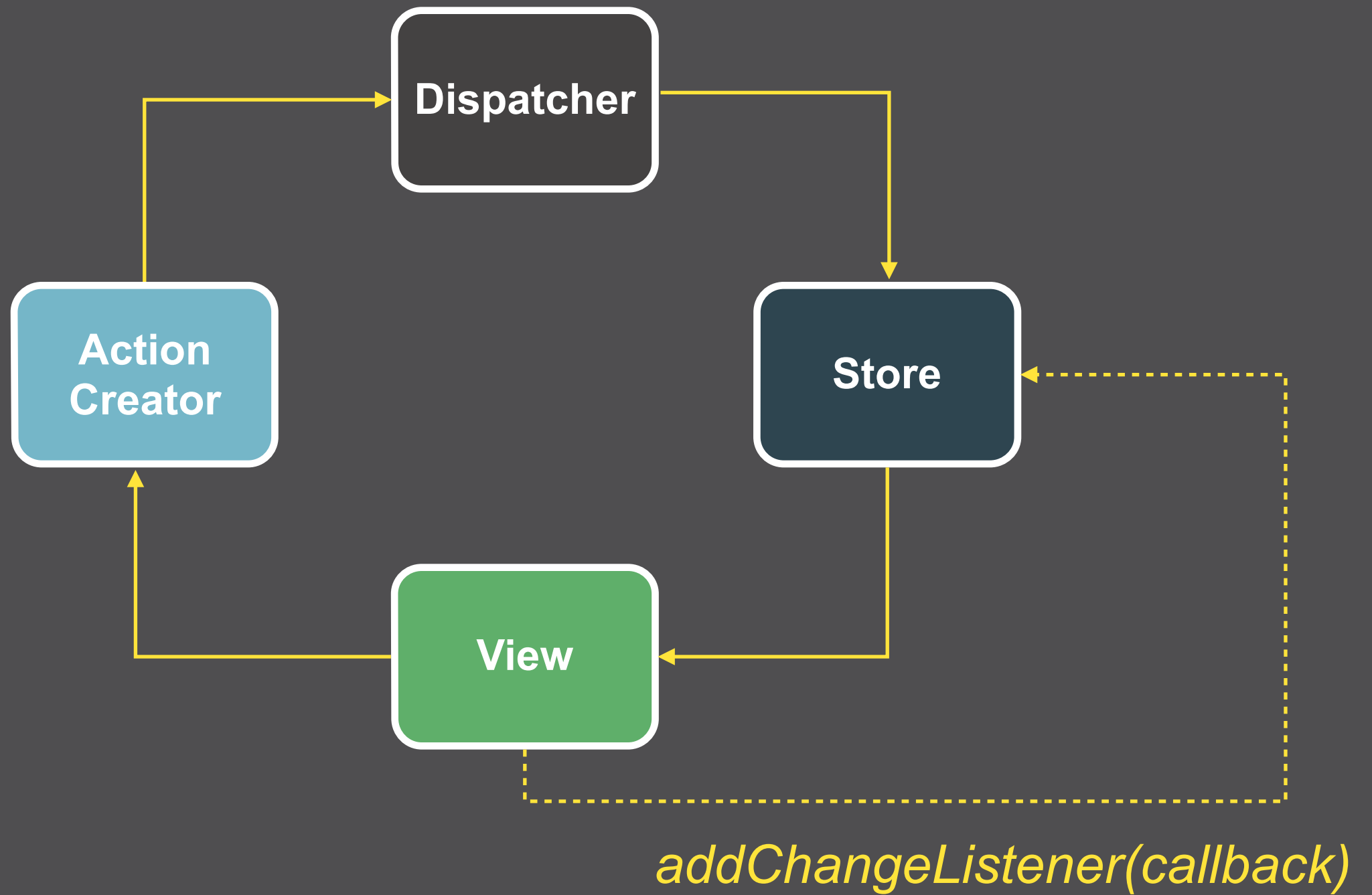


A dark blue rounded rectangle with a white border, containing the word "Store" in white text.

## Store

- Registrer seg hos dispatcher vha *register(callback)*
- Inneholder all forretningslogikk og tilstand
- Én store for hvert domene
- Oppdaterer views via events (EventEmitter)

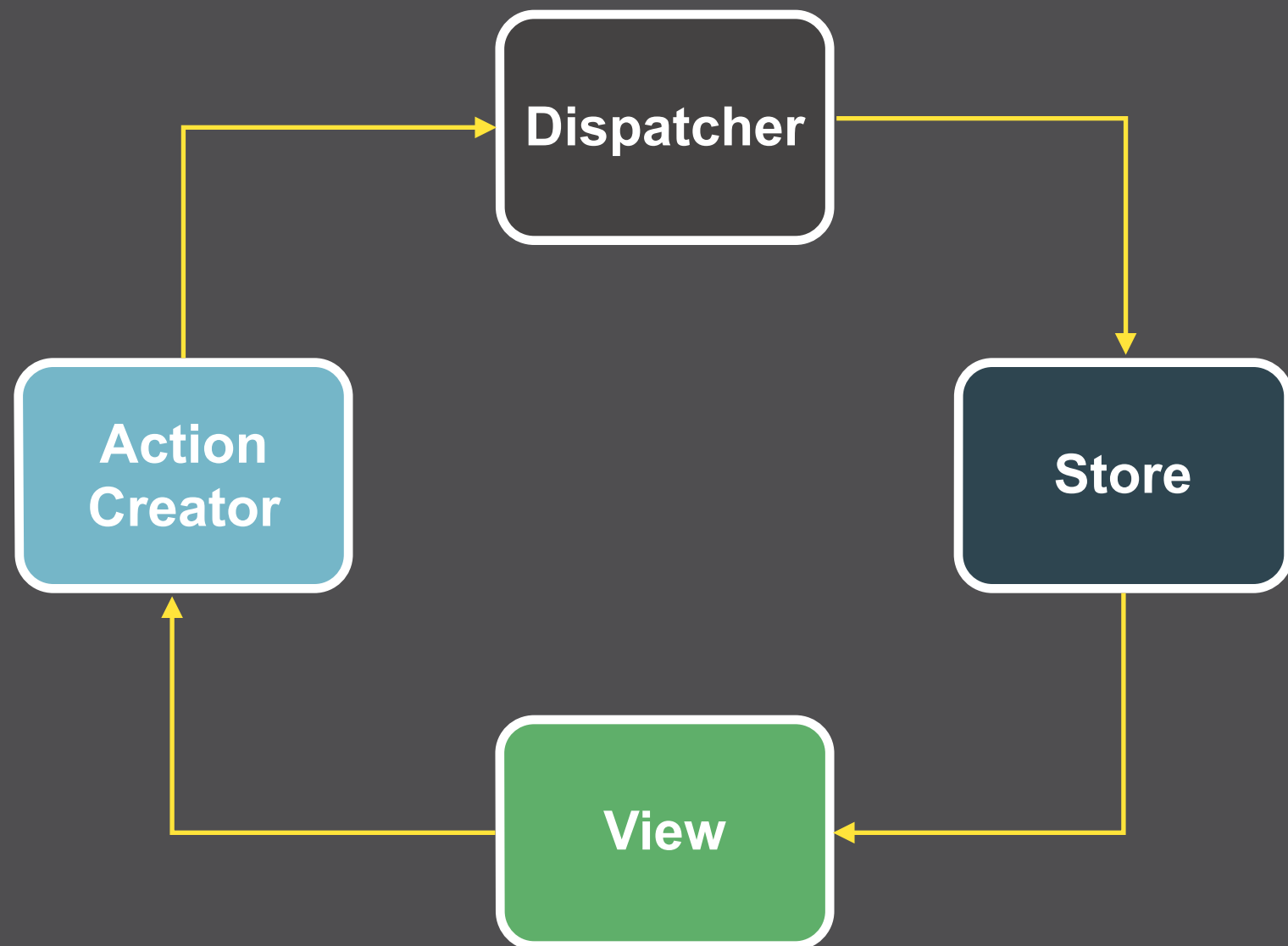




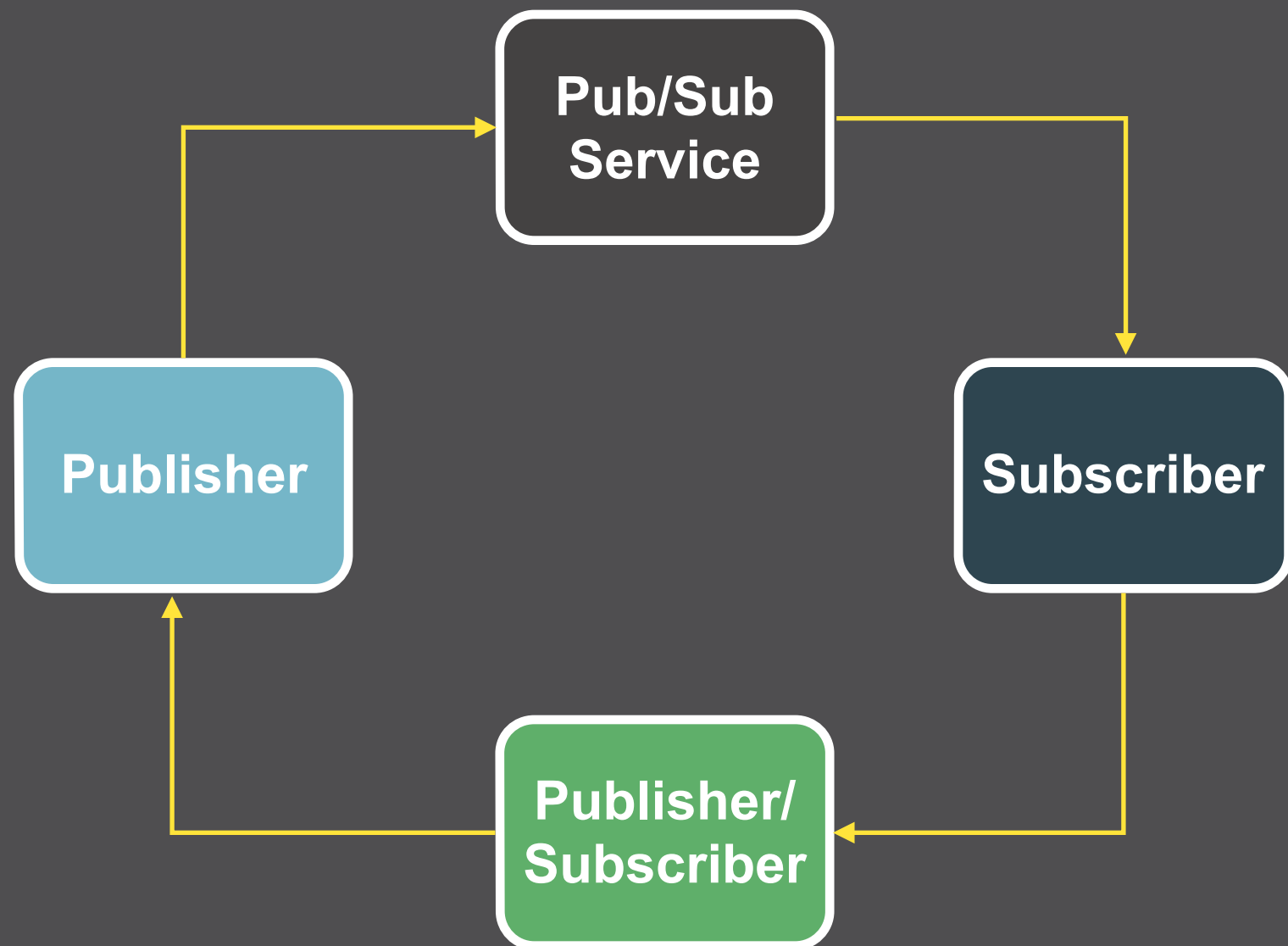


- Flux er ment som et komplement til React
- Controller views lytter på stores
- Mottar events fra stores (Event Emitter)
- Kun lesetilgang til stores

# Flux minner meg om...



# Pub/Sub



# Pub/Sub

*“Dispatcher is used to broadcast payloads to registered callbacks. This is different from generic pub-sub systems in two ways:*

- 1. Callbacks are not subscribed to particular events.*
- 2. Every payload is dispatched to every registered callback.*

*Callbacks can be deferred in whole or part until other callbacks have been executed.” [0]*

[0]: <http://facebook.github.io/flux/docs/dispatcher.html>

**Hvorfor?**

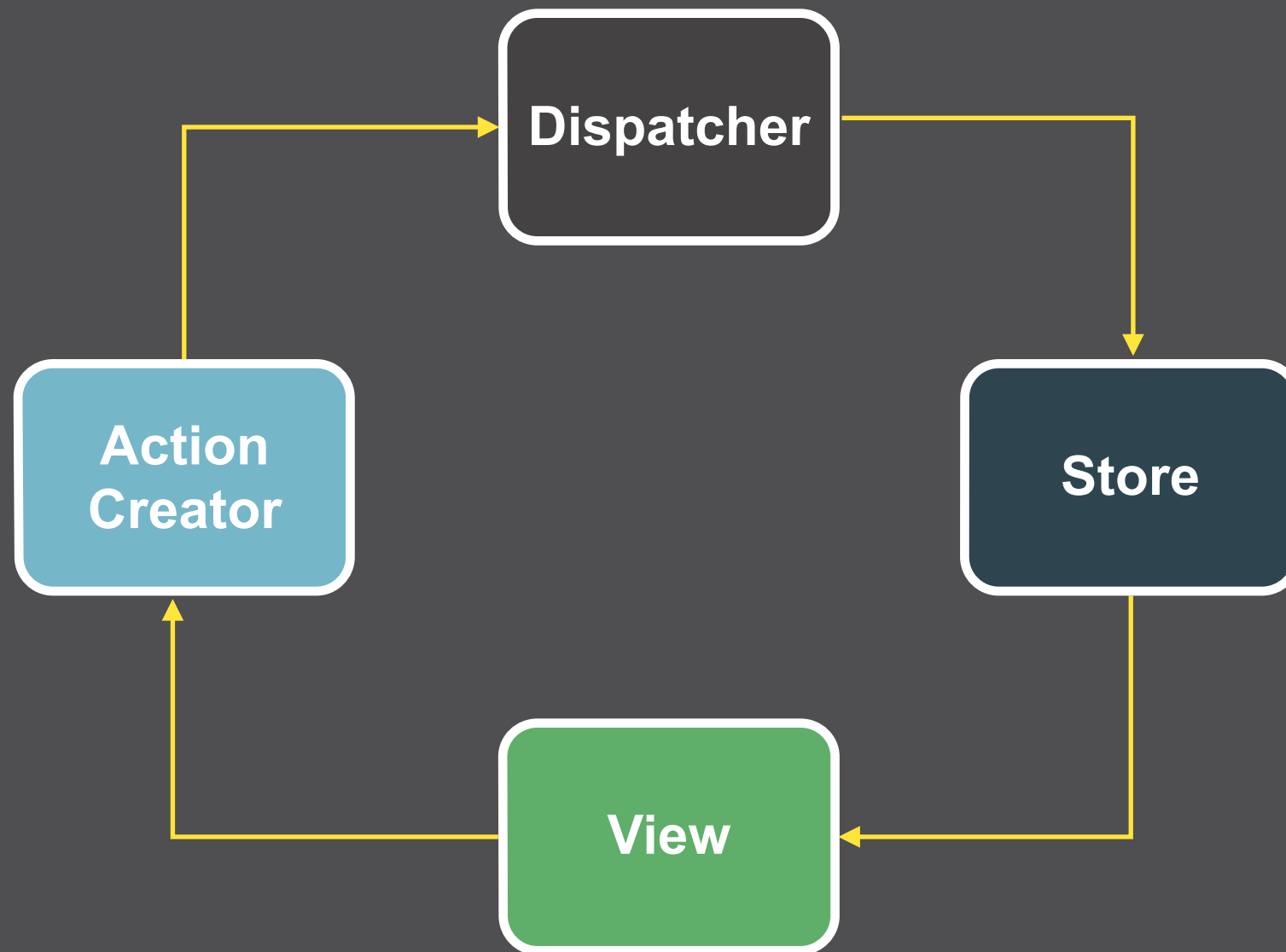


# Hvorfor Flux?

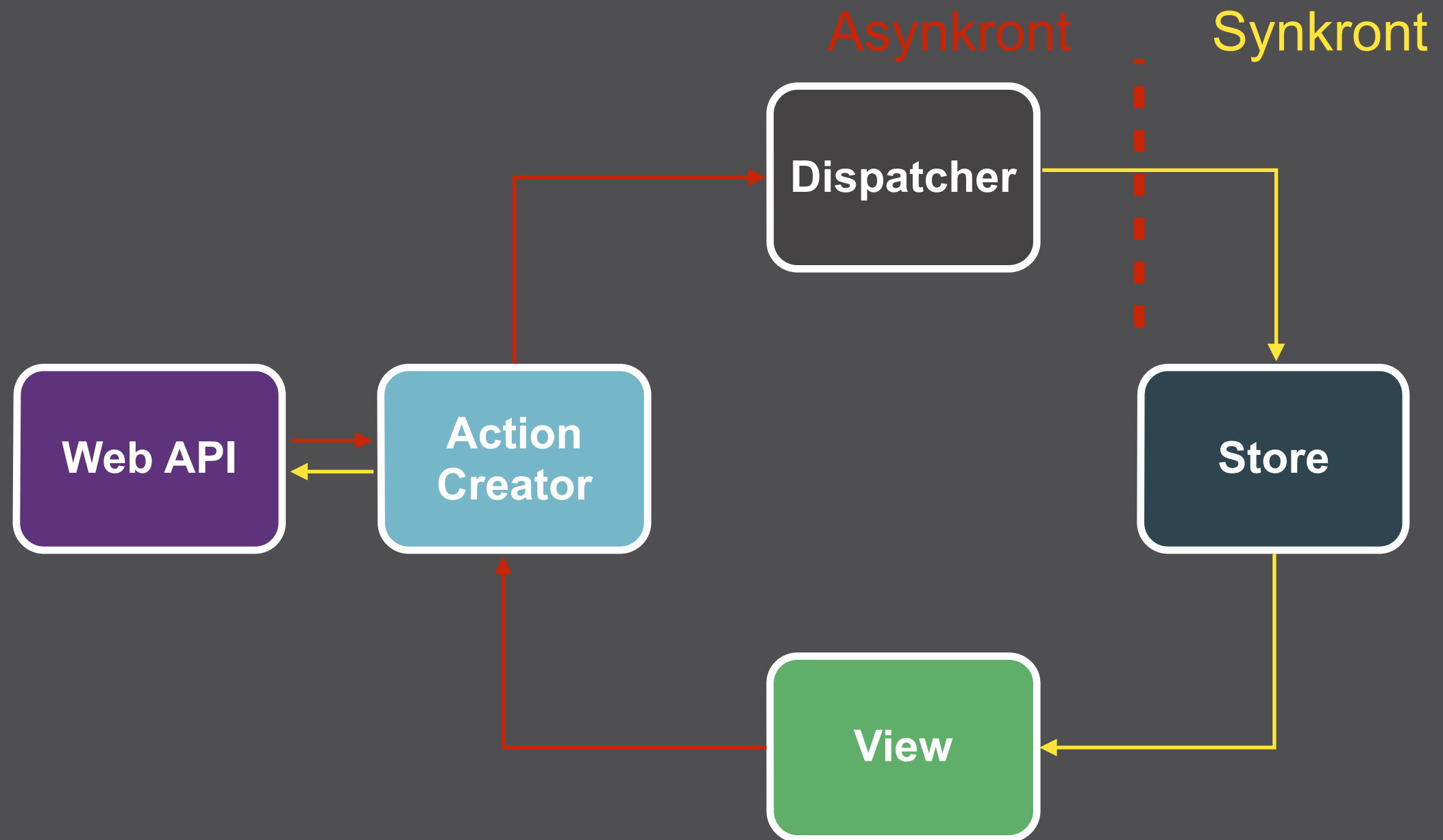
- Konseptuelt enkelt
- Forutsigbart
- Lett å resonnere rundt
- Isolerer asynkronitet og tilstand

# Oppsummering

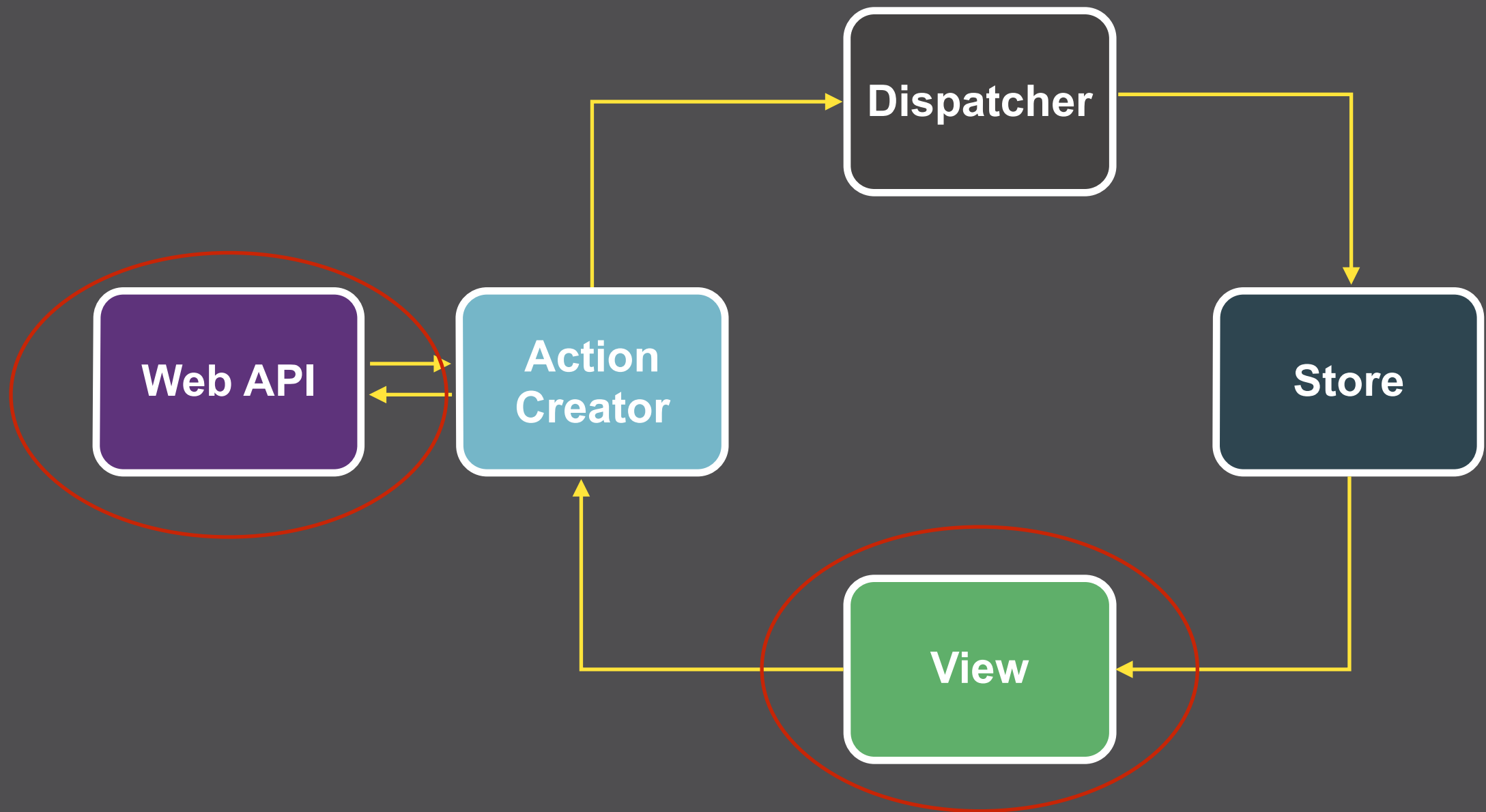
# Dataflyten går kun én vei



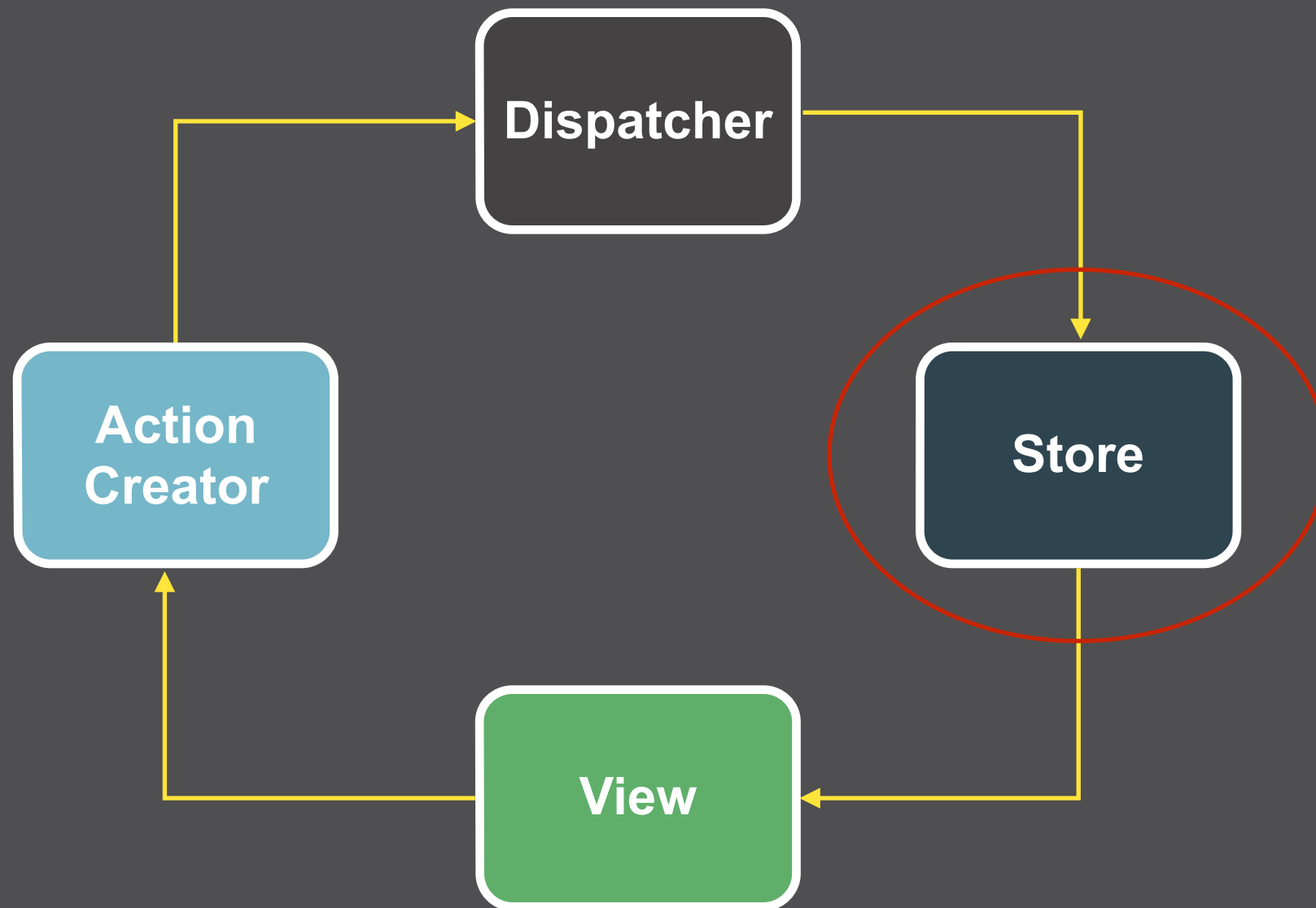
# Async “barriere”



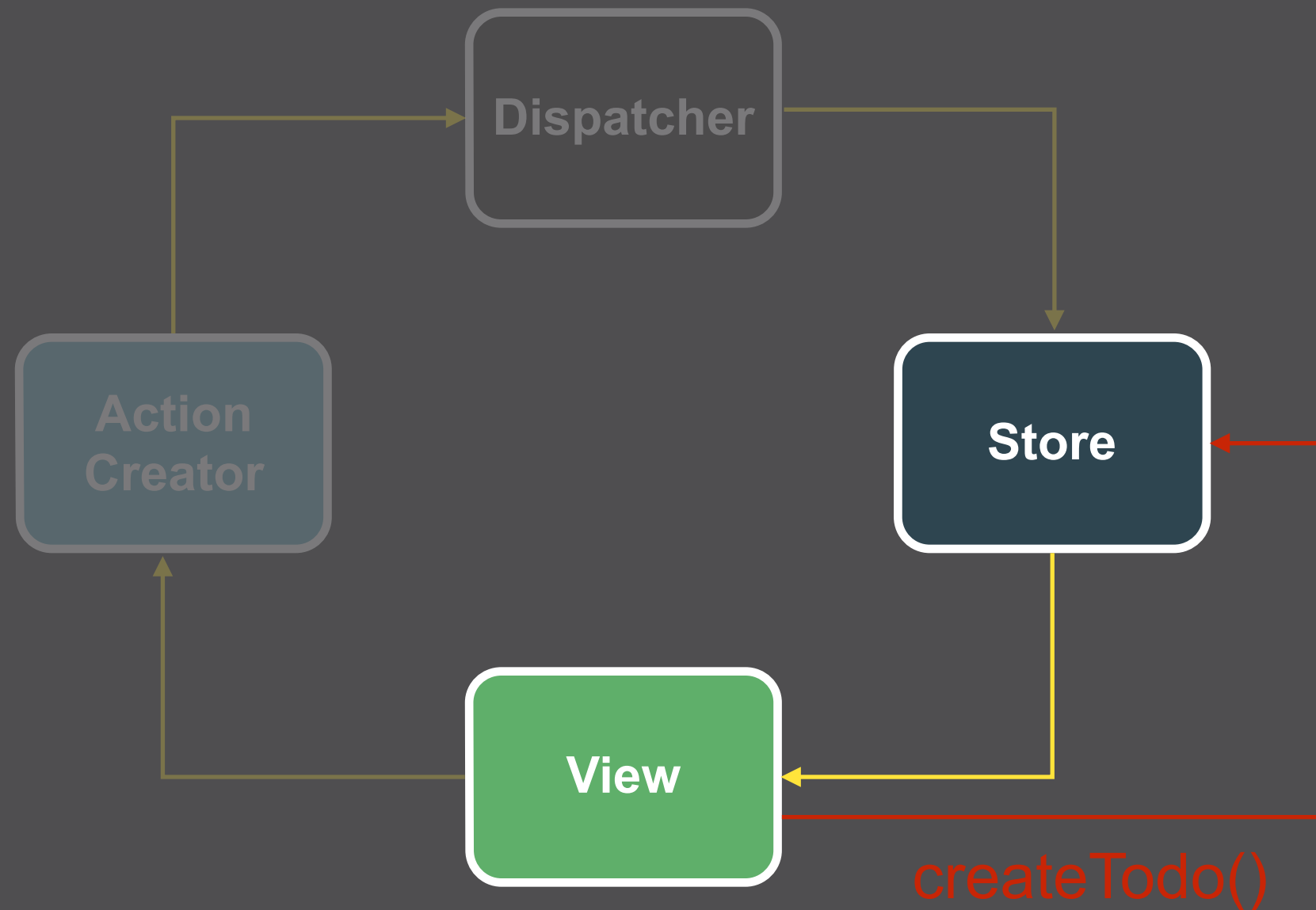
# Isolering av async



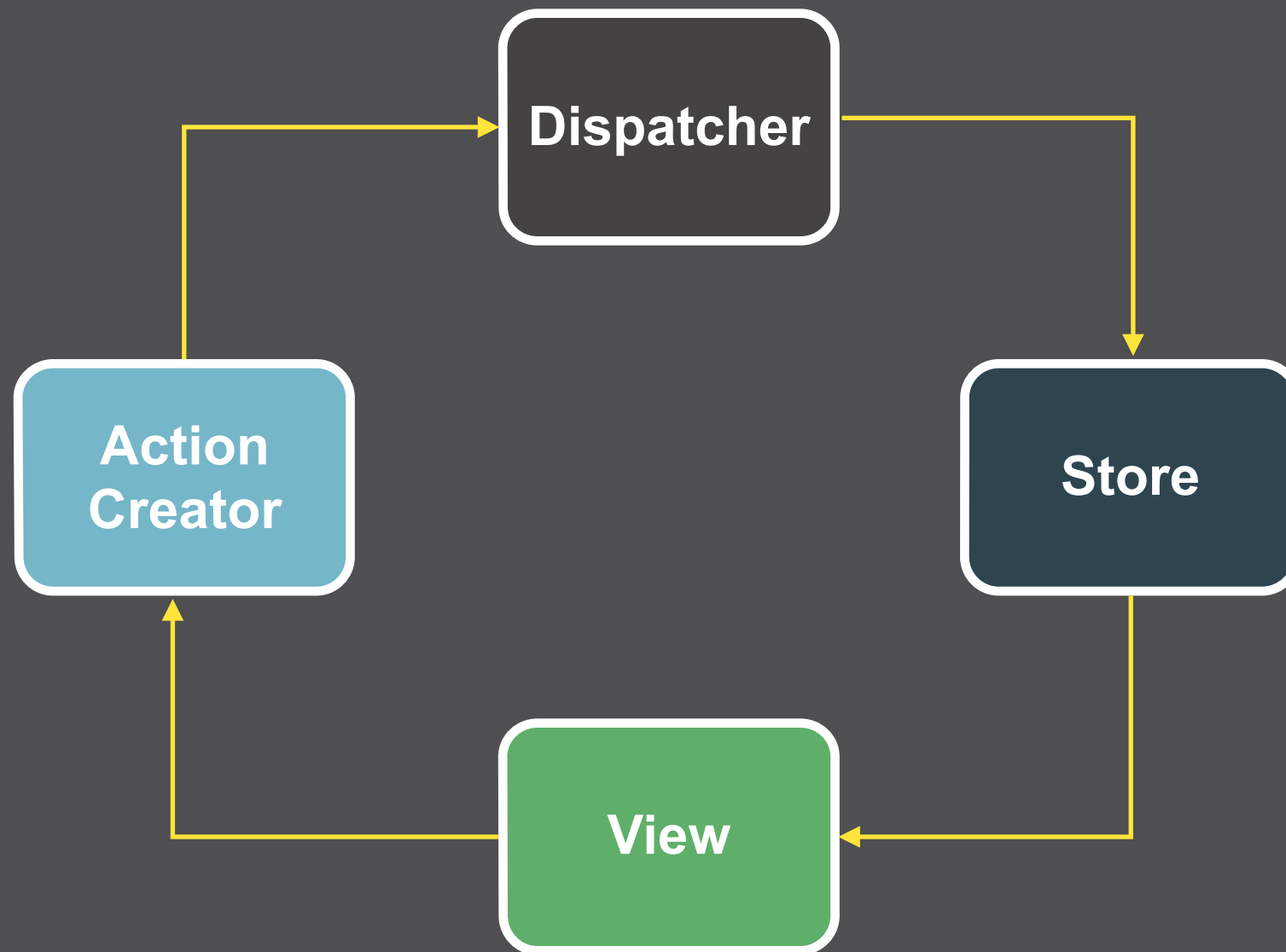
# Isolering av tilstand



# Kun lesetilgang



# Mental modell





# Framover

- Finsliping av konseptene (reflux, fluxxor, fluxible)
- Mer påvirkning fra funksjonelle paradigmer (frp, bacon.js, rxjs)
- om (Clojurescript), omniscient (JS)
- Flow, Typescript

**<https://github.com/kjbekkelund/flux-workshop>**